FLORIDA INTERNATIONAL UNIVERSITY
BOARD OF TRUSTEES
ACADEMIC POLICY AND STUDENT AFFAIRS COMMITTEE

FIU, Modesto A. Maidique Campus, Graham Center Ballrooms
To help prevent the spread of COVID-19, general public access via http://webcast.fiu.edu/

Thursday, December 3, 2020
9:15 AM

Upon Adjournment of Previous Meeting

Chair: Natasha Lowell
Vice Chair: Donna J. Hrinak
Members: Cesar L. Alvarez, Jose J. Armas – Health Affairs liaison, Dean C. Colson, Joerg Reinhold, Marc D. Sarnoff, Roger Tovar – Athletics liaison, Alexandra Valdes

AGENDA

1. Call to Order and Chair’s Remarks  Natasha Lowell
2. Approval of Minutes  Natasha Lowell
3. Action Item
   AP1. Tenure as a Condition of Employment Nominations  Kenneth G. Furton

4. Information and Discussion Items
   4.1 Academic Affairs Regular Reports
      ▪ Academic and Career Success  Valerie Johnsen
      ▪ Engagement  Saif Y. Ishoof
      ▪ Enrollment Management and Services  Kevin B. Coughlin
      ▪ Information Technology  Robert Grillo
      ▪ Research and Economic Development/ University Graduate School  Andres G. Gil
      ▪ Academic and Student Affairs  Elizabeth M. Bejar

5. Student Government Updates  Alexandra Valdes
6. Faculty Senate Updates
   Joerg Reinhold

7. New Business (If Any)
   Natasha Lowell

8. Concluding Remarks and Adjournment
   Natasha Lowell

The next Academic Policy and Student Affairs Committee Meeting is scheduled for Tuesday, February 23, 2021
## FIU Board of Trustees Academic Policy and Student Affairs Committee Meeting

**Time:** December 03, 2020 9:15 AM - 9:45 AM EST  
**Location:** Zoom

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THE FLORIDA INTERNATIONAL UNIVERSITY
BOARD OF TRUSTEES
Academic Policy and Student Affairs Committee
December 3, 2020

Subject: Approval of Minutes of Meetings held on August 12, 2020 and September 9, 2020

Proposed Committee Action:
Approval of Minutes of the Academic Policy and Student Affairs Committee meetings held on August 12, 2020 and September 9, 2020 via Zoom.

Background Information:
Committee members will review and approve the minutes of the Academic Policy and Student Affairs Committee meetings held on August 12, 2020 and September 9, 2020 via Zoom.

Supporting Documentation: Minutes: Academic Policy and Student Affairs Committee Meetings, August 12, 2020 and September 9, 2020

Facilitator/Presenter: Natasha Lowell, Academic Policy and Student Affairs Committee Chair
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1. Call to Order and Chair's Remarks
The Florida International University Board of Trustees’ Academic Policy and Student Affairs Committee meeting was called to order by Committee Chair Natasha Lowell on August 12, 2020 at 10:01 a.m. via Zoom.

General Counsel Carlos B. Castillo conducted roll call of the Academic Policy and Student Affairs Committee members and verified a quorum. Present were Trustees Natasha Lowell, Chair; Donna J. Hrinak, Vice Chair; Cesar L. Alvarez (joined after roll call); Jose J. Armas, Health Affairs Liaison; Board Chair Dean C. Colson; Joerg Reinhold; Marc D. Sarnoff (joined after roll call); Board Vice Chair Roger Tovar, Athletics Liaison; and Alexandra Valdes.

Trustees Leonard Boord, Gerald C. Grant, Jr., and Claudia Puig, and University President Mark B. Rosenberg were also in attendance.

Committee Chair Lowell welcomed Trustees and University administrators participating via the virtual environment and explained that the University community and general public were accessing the meeting via the FIU webcast.

Provost and Executive Vice President Kenneth G. Furton announced that the University is on track to exceed its goal relating to the four-year graduation rate, adding that this is the fourth consecutive academic year with over a five percent year-over-year increase. He explained that as one of the five R-1 Carnegie Research universities in the state, FIU achieved an 11% year-over-year increase in research expenditures, the highest increase in research expenditures amongst all five R-1 institutions.

2. Action Items
AP1. Honorary Degree Nomination
Provost Furton presented the Honorary Degree Nomination for Committee review, commenting that the request for an Honorary Degree is for Mr. Hashim Al Abri, an Honors College student currently double majoring in International Business and Management at FIU. Provost Furton remarked on Mr. Al Abri’s achievements, namely, that he conducted novel research about the psychological hardships endured by Third Culture Kids, that he raised funds for FIU’s Relay for Life, and single handedly organized a charity event to raise funds for a fellow FIU peer who is also
battling cancer. Provost Furton explained that last year, Mr. Al Abri was diagnosed with cancer and that this is his third time battling this disease, adding that in July he relapsed, and his treatment has now ended. Provost Furton stated that during his chemotherapy treatment, Mr. Al Abri continued his studies maintaining a 3.97 GPA and that as of mid-July, Mr. Al Abri had completed 88 of the 120 credits required for his major. Provost Furton explained that Mr. Al Abri’s last wish is to graduate from FIU. Provost Furton indicated that the Faculty Senate’s Honorary Degree and Awards Committee unanimously recommended the approval of the Honorary Bachelor of Business Administration degree for Mr. Al Abri.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend that the Florida International University Board of Trustees endorse Hashim Al Abri as a recipient of an Honorary Bachelor of Business Administration from Florida International University.

AP2. Approval of Amendments to Regulation FIU-105 Sexual Misconduct (Title IX)

General Counsel Castillo explained that the amendments to Regulation FIU-105 Sexual Misconduct (Title IX) include the renaming to Regulation FIU-105 Sexual Harassment (Title IX) and Sexual Misconduct. He pointed out that the Department of Education issued regulations on Title IX of the Education Amendments of 1972 and mandated that institutions of higher education, such as FIU, adopt these changes, no later than August 14, 2020. He commented that, consistent with the process being employed by other State University System (SUS) institutions and by the Florida Board of Governors (BOG) with respect to its own Title IX regulation, FIU is relying on the BOG’s Emergency Regulation Procedures to bring this action before the Board of Trustees. He remarked that, if approved, the revised Regulation will be in effect for 90 days, adding that before the expiration of that 90-day period, the matter will be presented to the Board of Trustees in accordance with the BOG’s non-emergency regulation procedures.

General Counsel Castillo acknowledged the work of various departments, namely, Academic Affairs, Employee and Labor Relations, the Office of Inclusion, Diversity, Equity, and Access, the Office of the General Counsel, Student Conduct and Academic Integrity, and the Victim Empowerment Program. He presented the proposed amendments to Regulation FIU-105 Sexual Misconduct (Title IX) for Committee review, referring Trustees to the executive summary contained within the agenda materials. He explained that one change relates to jurisdiction, adding that the Department of Education makes clear that sexual harassment only applies to conduct in an educational program in the United States and that said conduct is required to be severe, pervasive, and objectively offensive and that sexual misconduct applies to any conduct of a sexual nature, regardless of location.  He described another change pertaining to the scope of the revised regulation, commenting that this will now equally apply to students, employees, and third parties and will also now utilize the same investigative and adjudication process. General Counsel Castillo highlighted another area of change relating to the role of advisors, complainants, and respondents, noting that said parties were always permitted to have advisors throughout the entire process, but now during the hearings only advisors are permitted to question, and cross examine witnesses. He added that if either party does not have an advisor for witness questioning, the University is required to provide one.
In response to Committee Chair Lowell’s inquiry, General Counsel Castillo explained that the University has been working on developing procedures for implementing the revisions in the form of procedures and turned it over for details to Ms. Shirylon McWhorter, Director and Title IX Coordinator, Inclusion, Diversity, Equity and Access. Ms. McWhorter explained that a committee was formed in order to address the revisions to the University’s Title IX Regulation and described several matters that the committee has addressed. She commented on the requirement that there is one Title IX process for faculty, staff, and students and that the live hearings will be new to the University’s faculty and staff. She indicated that parties must be physically or virtually present enabling participants to see and hear each other and that the Assistant Dean of Students will coordinate and arrange the University live hearings for matters where the respondent is a student and that the Director of Employee and Labor Relations will do the same for matters where the respondent is a faculty or staff member. She pointed out that the hearings will be conducted by a hearing officer and a hearing body who are responsible for issuing the written determination of responsibility upon the conclusion of the hearing. She remarked that trained University officials involving faculty and staff matters and students involving student matters will constitute a hearing body, which will be chaired by a hearing officer. She stated that Professor of Law Phyllis Kotey will serve as a University hearing officer and that this will ensure a consistent process for the FIU community.

In response to Trustee Marc D. Sarnoff’s inquiries and comments regarding the substantive changes to the Regulation, General Counsel Castillo explained that the University began working with the BOG, as part of this process, shortly after the Department of Education announced the changes and that utilizing the Emergency Regulation Procedure allows for the continued review of the proposed revisions during the 90-day period. Committee Chair Lowell urged Trustee Sarnoff to address any remaining concerns with the Office of the General Counsel during the 90-day review process.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend to the Florida International University Board of Trustees the approval of the amendment of Regulation FIU-105 Sexual Misconduct (Title IX), including the renaming to Regulation FIU-105 Sexual Harassment (Title IX) and Sexual Misconduct.

**AP3. Proposed Amendments to Regulation FIU-2501 Student Conduct and Honor Code**

Senior Vice President for Academic and Student Affairs Elizabeth M. Bejar presented the proposed amendments to Regulation FIU-2501 Student Conduct and Honor Code for Committee review. She explained that it is recommended that all matters related to gender-based misconduct, including violations prohibited by Title IX and FIU, be encompassed under Regulation 105. She referred Trustees to the executive summary contained within the agenda materials and commented that additional changes for the Board’s consideration were opportunely prompted by the release of the Title IX regulations. She noted that the editorial revisions included rearranging portions of the Code to ensure that related information was included in the same or most relevant area of the Code, removing and consolidating redundant information, and working to promote readability of the regulation. She described the other changes, including expanding the amnesty provisions under the Code, expanding the interim measures under the Code and adding the specific process of petitioning for review of an interim suspension, changing the restrictions related to probation under to Code to better align with the educational and developmental aims of the document, adding, and in some
instances incorporating existing language from the Code, the following as distinct violations under
the Code: assisting, failure to comply, harassment, and social host liability, and revising the length of
the notation of suspension on a respondent’s academic transcript.

In response to Trustee Donna J. Hrinak, Sr. VP Bejar explained that, while not anticipated, revisions
to Regulation FIU-105 after the 90-day period may likely require subsequent changes to FIU-2501.
In response to inquiries from Trustee Sarnoff, Sr. VP Bejar confirmed that some of the proposed
changes to the Student Conduct and Honor Code are not mandated by the Department of
Education and Assistant Dean of Students Michelle R. Horvath referred to changes relating to
interim measures, providing general examples, given the high thresholds needed in order to
temporarily suspend an individual. Associate General Counsel Iris A. Elijah pointed out that while
certain changes to the Code are a result of the revisions to FIU-105, other changes, outside of sexual
harassment or sexual misconduct, do not have to be implemented by the same time period.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and
Student Affairs Committee recommend that the Florida International University Board of Trustees
approve the revisions to Regulation FIU-2501 Student Conduct and Honor Code, and delegate
authority to the University President to approve any subsequent non-material amendments based on
comments to the Regulation received from the Florida Board of Governors (BOG) or as a result of
the regulation-making process.

3. New Business
No new business was raised.

4. Concluding Remarks and Adjournment
With no other business, Committee Chair Natasha Lowell adjourned the meeting of the Florida
International University Board of Trustees Academic Policy and Student Affairs Committee on
Wednesday, August 12, 2020 at 10:42 a.m.

There were no Trustee requests.
1. Call to Order and Chair’s Remarks
The Florida International University Board of Trustees’ Academic Policy and Student Affairs Committee meeting was called to order by Committee Chair Natasha Lowell on Wednesday, September 9, 2020 at 9:51 AM via Zoom.

General Counsel Carlos B. Castillo conducted roll call of the Academic Policy and Student Affairs Committee members and verified a quorum. Present were Trustees Natasha Lowell, Chair; Cesar L. Alvarez; Jose J. Armas, Health Affairs Liaison; Dean C. Colson, Board Chair; Joerg Reinhold; Marc D. Sarnoff; Roger Tovar, Board Vice Chair and Athletics Liaison, and Alexandra Valdes.

Committee Vice Chair Donna J. Hrinak was excused.

Trustees Leonard Boord, Gerald C. Grant, Jr., Gene Prescott, and Claudia Puig, and University President Mark B. Rosenberg were also in attendance.

Committee Chair Lowell welcomed Trustees and University administrators participating via the virtual environment and explained that the University community and general public were accessing the meeting via the FIU webcast.

2. Approval of Minutes
Committee Chair Lowell asked that the Committee approve the Minutes of the meeting held on June 16, 2020. Trustee Joerg Reinhold requested that the Minutes of the June 16, 2020 Meeting of the Academic Policy and Student Affairs Committee be amended to reflect that “…the Faculty Senate has, among other items, discussed proposed changes to the Tenure and Promotion manual…” and that “He described one new such program…” (Faculty Senate Update).

A motion was made and unanimously passed to approve the minutes of the Academic Policy and Student Affairs Committee meeting held on June 16, 2020 as amended by Trustee Reinhold.
3. Action Items

AP1. Tenure as a Condition of Employment Nominations
Provost and Executive Vice President Kenneth G. Furton presented the Tenure as a Condition of Employment (TACOE) nominations for Committee review, noting that TACOE is reserved for individuals who are under recruitment by FIU and have achieved highly prestigious academic careers at other institutions. He explained that the TACOE candidates have either already achieved tenure or are eligible for tenure at comparable institutions at the time of hire, adding that TACOE candidates understand that they will be hired with tenure pending a review by the department, the College, the Provost, the President, and finally, the Board of Trustees. Provost Furton briefly commented on each of the TACOE candidates.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend to the Florida International University Board of Trustees the approval of six (6) candidates for Tenure as a Condition of Employment.

AP2. Legislative Budget Requests
Provost Furton presented the Legislative Budget requests for Committee review. He commented on the $4.99M request pertaining to the Strengthening Minority Achievement and Results through Teaching (SMART) Pipeline, adding that the objective of the request is to transform and re-engineer FIU STEM programs and courses to optimize the retention, graduation rate marketability, and career creation and placement. Provost Furton remarked on the $15.15M request relating to the Program of Distinction in Environmental Resilience, indicating that FIU was designated as a university of distinction in environmental resilience by the Florida Board of Governors. He explained that the program is aligned with utilizing FIU’s interdisciplinary core competence in addressing 21st Century environmental challenges and that the program’s mission is to address environmental challenges by creating data-driven solutions and educating the work force of tomorrow in strategic areas of focus.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend to the Florida International University Board of Trustees approval of the 2021-2022 Legislative Budget Requests as specified in the Board materials.

AP3. Textbook and Instructional Materials Affordability Annual Report
Senior Vice President for Academic and Student Affairs Elizabeth M. Bejar presented the Textbook and Instructional Materials Affordability Annual Report for Committee review. She explained that effective July 1, 2016, Florida House Bill 7019, Education Access and Affordability, requires the Florida Board of Governors and the State Board of Education to annually identify strategies to promote college affordability. She indicated that 349 sections throughout 91 fall and spring courses did not require the purchase of textbooks or course materials, adding that this benefitted over 26,000 undergraduate students enrolled in those courses. Sr. VP Bejar indicated that while faculty and staff diligently submitted textbook and course material adoptions 45 days or earlier before the semester for over 14,400 course sections across fall and spring last academic year, there were 786 core sections that did not meet the deadline due to the merging of sections or other last-minute scheduling or assignment changes.
Sr. VP Bejar remarked that a 95% threshold was achieved in fall 2019 and that in spring 2020, the 94.2% adoption rate did not meet the goal of 95%. She pointed out that FIU has consulted with Florida Board of Governors staff and that the University is collaborating with Barnes & Noble College to develop, and put into place effective the spring semester, a customized system that would work to ensure that any adoption after the deadline has an approved exception that is properly documented upon submission. She mentioned that FIU Online spearheaded a state-wide initiative that generated $1.9M in savings for more than 13,000 students and that FIU libraries provided access to 4.6M items in electronic format.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend to the Florida International University Board of Trustees approval of the Textbook and Instructional Materials Affordability Annual Report.

4. Information and Discussion Items
4.1 Academic Affairs Regular Reports
There were no questions from the Committee members in terms of the Academic Affairs regular reports included as part of the agenda materials.

5. Faculty Senate Updates
Trustee Reinhold, Faculty Senate Chair, commented that since the Board’s Full Board Meeting on June 16, 2020, the Faculty Senate passed a resolution on racial, social, and community justice and also submitted a proposal for inclusion by the University’s Equity Action Initiative. He remarked on the Faculty Senate’s September 8, 2020 meeting, noting that Vice Provost for Population Health and Well-Being Yolangel Hernandez-Suarez, MD, reported on the role of the COVID Response Team. He indicated that upon the conclusion of the Senate meeting, representatives to the Steering and Nominating Committees were elected. Trustee Reinhold pointed out that the Steering Committee meets the week before every Senate meeting and sets the agenda for Senate meetings. He mentioned that the Senate’s next meeting is scheduled for September 29, 2020 and that some of the items that the Senate will resume work on are finalizing changes to the Tenure and Promotion Manual, 10-year review of the Faculty Senate Constitution, and interfacing and supporting the strategic plan working groups.

6. Student Government Updates
Trustee Alexandra Valdes, President of the Student Government Council at the Modesto A. Maidique Campus, commented on fundraising efforts to raise awareness for the on-campus food pantry, on the start of a platform that focuses on student conversations, and on the launch of a mentorship program in collaboration with the Alumni Association. She indicated that for the first time ever, student organizations and councils are recruiting 100% virtually. In terms of physical presence on campus, she remarked on actively engaging with students relating to the remainder of the fall semester and the start of the spring semester.

7. New Business
No new business was raised.
8. Concluding Remarks and Adjournment
With no other business, Committee Chair Natasha Lowell adjourned the meeting of the Florida International University Board of Trustees Academic Policy and Student Affairs Committee on Wednesday, September 9, 2020 at 10:16 AM.

There were no Trustee requests.
THE FLORIDA INTERNATIONAL UNIVERSITY
BOARD OF TRUSTEES
Academic Policy and Student Affairs Committee
December 3, 2020

Subject: Tenure as a Condition of Employment Nominations

Proposed Committee Action:
Recommend to the Florida International University Board of Trustees the approval of four (4) candidates for Tenure as a Condition of Employment (TACOE).

Background Information:
Pursuant to Florida Board of Governors Regulation 1.001(5)(a), each board of trustees shall provide for the establishment of the personnel program for all the employees of the university, including but not limited to tenure.

The TACOE nominees hold tenure at their previous institutions and have been selected to receive TACOE based on the caliber of their work.

Supporting Documentation:  
TACOE Nominee Overview  
TACOE Nominee Bios  
TACOE Nominee Curriculum Vitae

Facilitator/Presenter:  
Kenneth G. Furton
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<td>Maruthi Sridhar Balaji Bhaskar</td>
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<td>Mark Butler</td>
<td>College of Arts, Sciences &amp; Education</td>
<td>Biological Sciences</td>
<td>Professor</td>
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<td>Carlos Martin Chang</td>
<td>College of Engineering and Computing</td>
<td>Civil and Environmental Engineering</td>
<td>Associate Professor</td>
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<td>Aaron M. Kuntz</td>
<td>College of Arts, Sciences &amp; Education</td>
<td>Counseling, Recreation and School Psychology</td>
<td>Professor</td>
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Dr. Balaji Bhaskar came to FIU from the Department of Environmental and Interdisciplinary Sciences, Texas Southern University, Houston. His research interests are focused on coastal hazards, environmental management and natural resources, using GIS, remote sensing, environmental analytical techniques, and spatio-temporal analysis of complex natural resources. He has applied GIS/RS and other spatial modeling techniques to a wide variety of environmental and public health problems, including algal blooms, biosolid applications in agriculture, evapotranspiration losses by invasive plant species, mercury contamination in Tennessee, and urban flooding and toxicity. He served as a Fulbright Research Scholar during 2018-2019 in Uganda. Dr. Balaji Bhaskar has an impressive publication record, with approximately 25 peer-reviewed papers, 12 as primary author. He holds five patents in the broad area of environmental sensing technology, with one pending (he is the primary patent holder on four of them). He has a strong collaboration with private industry specialized in remote sensing technology. He has mentored several graduate and undergraduate students. Dr. Balaji Bhaskar received his PhD in Forest Resources from Mississippi State University in 2004.

Dr. Balaji Bhaskar has an impressive grant record, with funding from NSF, NASA, DOE and USDA during the last 8 years. He is currently the PI on two NSF grants (one NSF-TIP and another NSF-EIR-GSS) and Co-PI on another NSF grant, totaling about $2 million. **One of these grants for which he is a PI is worth half a million dollar and is a research grant that Dr. Bhaskar might be able to bring with him.** He also mentions the possibility of bringing some high-cost field instruments along with him. Prior to the current active grants, he had obtained grants from DOE, NASA, and USDA.

EAE faculty noticed Dr. Balaji Bhaskar’s grantsmanship, his sustained engagement of minority students in STEM internship with federal agencies like DOE (e.g., taking groups of minority students to DOE Oak Ridge National Lab three years in a row for summer internship with NSF funding), graduate student mentoring, and his prior experience teaching a variety of courses in GIS/RS, environmental sciences, and ecology that match well with the needs of our program. The EAE Faculty thought Dr. Balaji the best fit for our department while Director and staff of the FIU Extreme Event Institute representatives also found him acceptable.
Dr. Mark Butler came to FIU from Old Dominion University where he received tenure in 1994 and was promoted to full Professor in 2000. Dr. Butler received his PhD in Biological Sciences at Florida State University in 1988.

Research: Evidence of Dr. Butler’s research productivity in terms of published papers and grants can be discerned from his CV. He published over 100 peer-reviewed papers and another 50 or so book chapters and other articles. Over the past five years he has published an average of 5 peer-reviewed papers per year. He has garnered continuous funding for his research over the past three decades from several agencies, chiefly: NSF, NOAA, Florida Sea Grant, and the EPA. I am currently the lead-PI on five grants totaling over $500K.

Teaching: Interacting with students is often the highpoint of his day. Helping students navigate their own path is rewarding, so his door is always open to them. He has mentored many doctoral students in the Biology department at ODU and his graduate students are like family. At ODU, he taught courses in marine ecology, biostatistics, field marine biology, and scientific diving. At ODU, he created the Marine Biology Program in the Department of Biological Sciences along with ancillary programs and courses to support it, including: the ODU AAUS Academic Diving Program, the Marine Biology Student Association, and two off-campus tropical marine biology courses: a study abroad course that he teaches in Belize and a semester-long study away program in the Florida Keys.
Carlos M. Chang, Ph.D., P.E., comes to FIU from the Department of Civil Engineering at the University of Texas at El Paso (UTEP). Prior to joining UTEP in 2008, he worked as an Associate Researcher at the Texas A&M Transportation Institute (TTI), and as an external consultant for the Inter-American Development Bank (IDB) and international engineering companies.

Dr. Chang’s main research interests are in the field of asset management with emphasis on sustainable “smart” infrastructure management for better quality of life. His research work involves the development of advanced decision-making models, methodologies, and tools to apply multi-decision criteria, statistical analysis, simulation processes, optimization techniques, and risk analysis methods to assess infrastructure performance under different scenarios. Among his research sponsors are the National Highway Cooperative Research Program (NCHRP), Metropolitan Transportation Commission in California (MTC), the Texas Department of Transportation (TxDOT), the El Paso Metropolitan Planning Organization (MPO), and the City of El Paso. His research work is documented in more than 100 publications including papers in peer-reviewed national and international journals, conference proceedings, books, and technical reports.

Dr. Chang participates on various Transportation Research Board committees and expert task groups. He is the Research Coordinator of the TRB Pavement Management Systems Committee (AFD10) and member of the Pavement Preservation Committee (AHD18); Chair of the ASCE Infrastructure Systems Committee, Vice President of the International Society for Maintenance and Rehabilitation of Transport Infrastructures (isMARTI) in the United States; and member of the Executive Board of the Instituto de la Construcción y Gerencia (ICG) in Perú. He is also the former Chair of the International Road Federation (IRF) Asset Management Task Force, U.S. Delegate of the Ibero-Latin-American Asphalt Congress (CILA), and Chair of the Committee for the Implementation of Mechanistic-Empirical Pavement Design (CIDMEP), and visiting professor at EAFIT University in Colombia, Ricardo Palma University and University of Piura in Perú.

At UTEP, Dr. Chang serves as the faculty advisor of the Chi Epsilon, the Texas Society of Professional Engineers (TSPE), the Transportation Leadership Council (TLC) student chapters; and the International Road Federation (IRF) Fellowship program. He is the Director of two study abroad programs: (1) “Global and Regional Sustainability Engineering” in partnership with the University of Piura (UDEP) in Perú; and “Developing Multidisciplinary Global Skills to Prepare Engineering Students for Leading Sustainable Infrastructure Solutions” with the Universidad Nacional de Rosario in Argentina. Dr. Chang also participated in the implementation of the Transatlantic Dual Master’s Degree Program in Transportation and Logistic Systems with the participation of the Czech Technical University and University of Zilina. Dr. Chang has also been instrumental in signing a cooperation agreement with the Universidad Nacional de Ingeniería in Peru.

Due to his unique combination of academic and practical experience, Dr. Chang developed the “Engineering in Practice” program that is conceived to extend the students’ education beyond the classroom by merging teaching, research, and service. This program has been three-times awarded the “Engineering Award for Connecting Professional Practice and Education” by the National Council of Examiners for Engineering and Surveying (NCEES). Dr. Chang is also a recipient of the TSPE Excellence Award from the Texas Society of Professional Engineering for promoting professional practice through education.
Dr. Kuntz came to FIU as a Professor from the University of Alabama. He received his PhD in Educational Policy, Research and Administration from the University of Massachusetts in 2007.

Teaching
Dr. Kuntz taught graduate courses in qualitative inquiry and foundations of education courses at the University of Alabama. While he appears to have taught primarily graduate level courses, he also taught an undergraduate level honors seminar. We do not have access to course evaluations or student comments. However, he was the recipient of the McCrory Faculty Excellence Award, Distinguished Teaching, College of Education, University of Alabama, in 2016. It appears Dr. Kuntz was committed to mentoring students through the dissertation process as evidenced by his vast service on doctoral committees. At the University of Alabama, he was chair of 14 committees, and served as a member on 75 additional doctoral dissertation committees. He continues to serve on 10 doctoral committees. Dr. Kuntz was also a member of 3 thesis committees.

Research
Dr. Kuntz’s research has focused on ways of producing knowledge based on theoretical deliberations of critical theory, relational materialism, and poststructuralism that have emerged in social theory over the past fifty years. Dr. Kuntz is a prolific writer and his publications appear in diverse high quality peer reviewed journals as Qualitative Inquiry, Cultural Studies, Critical Methodologies, The Journal of Higher Education, The Review of Higher Education, the International Journal of Qualitative Studies in Education, Educational Studies. He also has numerous book chapters. His co-authored book projects include Qualitative Inquiry for Equity in Higher Education: Methodological Implications, Negotiations, and Responsibilities (Jossey-Bass Publishers) and Citizenship Education: Global Perspectives, Local Practices (Routledge Press). Dr. Kuntz received the 2020 AERA QR SIG Outstanding Book Award. He was also awarded the President's Faculty Research Award for Social & Behavioral Science at the University of Alabama in 2017. Some of Dr. Kuntz’s research projects have been supported by the National Science Foundation.

Service
Dr. Kuntz has provided exemplary service to his university, profession, and community. In terms of University service, he served as Department Head in Educational Studies at the University of Alabama from 2014 to 2020. In regard to his profession, he served as Guest Editor for three special journal issues, Qualitative Inquiry, Summer 2020, Critical Questions in Education, Spring 2017, and Critical Questions in Education, Fall 2016. He served on the Editorial Board of these five journals: ACCESS: Contemporary Issues in Education, Philosophy & Theory in Higher Education, The Journal of Culture and Education, Bloomsbury Research Methods for Education, and Review of Higher Education. He also served as an invited reviewer for 10 peer-reviewed journals. From 2014-2015, he served as the President of the Southeast Philosophy of Education Society. Dr. Kuntz was also involved in serving his community and was a co-recipient of the Community Engagement Award, Center for Community Based Partnerships, University of Alabama, 2011 and co-recipient of the Excellence in Community Engagement Award for Scholarship, Center for Community Based Partnerships, University of Alabama, 2010.
EDUCATION

Aug 2004 Ph.D. (Forest Resources)
Mississippi State University, Mississippi State, MS.
Dissertation Title: Monitoring spectral reflectance and internal structure of plants during phytoremediation processes of selected heavy metals.

Oct 2000 MSc (Soil Science & Agricultural Chemistry)
Acharya N.G. Ranga Agricultural University, Hyderabad, India.
Thesis Title: Characterization and classification of soils of karimnagar district for land use planning using GIS techniques.

Sep 1997 BSc (Agriculture)
Acharya N.G. Ranga Agricultural University, Hyderabad, India.

PROFESSIONAL EXPERIENCE:

Sept 2017 to Present Associate Professor, Department of Environmental and Interdisciplinary Sciences, Texas Southern University, Houston, TX.

Sept 2018 to June 2019 Fulbright Scholar -Sub-Saharan Africa, Department of Geomatics and Land Management, Makerere University, Kampala, Uganda.

Sept 2011 to Aug 2017 Assistant Professor, Department of Environmental and Interdisciplinary Sciences, Texas Southern University, Houston, TX.

Sept 2014 to Present Director, Environmental Toxicology Program, Department of Environmental and Interdisciplinary Sciences, Texas Southern University, Houston, TX.

June 2013 to Aug 2016 Visiting Summer Faculty, Oak Ridge National Lab (ORNL), Oak Ridge, TN.

July 2009 to Sept 2011 Research Scientist, Department of Geology, Bowling Green State University, Bowling Green, OH.

July 2004 to June 2009 Postdoctoral faculty, Department of Geology, Bowling Green State University, Bowling Green, OH.

Research accomplishments:
- Monitoring the land use and land cover changes and environmental contamination trends in the urban watersheds of Houston-Galveston Region.
• Mapping and monitoring the water quality of the Galveston Bay, Texas and Lake Victoria in East Africa.
• Quantify and monitor the landscape level changes on the mercury concentrations at watershed scale.
• Develop geospatial database to map mercury concentration in soil, sediment, water and fish in Tennessee watersheds.
• Quantify the physical and chemical changes of soils in the Lake Erie drainage basin as a result of sewage sludge, dairy and poultry manure applications.
• Monitoring the chemical concentrations in soils and plants through traditional chemical analysis and to map the areas of high chemical concentrations using the satellite imagery.
• Mapping and measuring the algal blooms and other water quality parameters in Lake Erie through traditional analytical methods and also through remote sensing and GIS techniques.
• Mapping the distribution and effects of the Salt cedar (Tamarix ramosissima) an invasive plant species along the riparian areas of the Lower Colorado region.

Jan 2001 to July 2004 Graduate Research Associate, Diagnostic Instrumentation and Analysis Laboratory, Mississippi State University, MS.
Research accomplishments:
• Conducted green house studies using mustard, barley and fern plants for phytoremediation and restoration of the toxic metal contaminated soils.
• Application of remote sensing and spectral reflectance to monitor the heavy metal stress in plants
• Analyzed the As, Cd, Cr, Cs, Sr and Zn accumulation in soils and plants through traditional chemical analysis and microscopy.

July 1999 to Oct 2000 Seed Production Officer, Monsanto, India.
Responsibilities:
• To provide leadership for corn and soybean seed production.
• Supervise, evaluate and develop technical ability of field assistants.
• Manage the production research in green house and field environments, conducting the field trials for method and result demonstrations.

Sep 1997 to July 1999 Graduate Research Associate, College of Agriculture, Rajendranagar, Hyderabad, India.

RESEARCH EXPERTISE
• Agricultural and Environmental monitoring using Remote Sensing and GIS.
• Land Use and Land Cover change, Global Environmental change detection.
• Imaging Spectrometer and Hyperspectral data acquisition and analysis.
• Monitoring the effects of Heavy metal and Nutrient Pollution on Soil, Plant and Atmosphere.
• Soil Contamination, Remediation and Restoration.

TEACHING EXPERIENCE
Courses taught at Department of Environmental and Interdisciplinary Sciences, Texas Southern University, Houston, TX.
*Courses Developed
*GEOL 141: Introduction to Earth* - Undergraduate level
*ES 704: Aquatic Resources and Pollution* - Graduate level
*ES 703: Environmental Science* - Graduate level
*ES 718: Remote Sensing and Image Interpretation* - Graduate level
*ES 720: GIS (Geographic Information Systems) for Environmental science* - Graduate level
*ES 730: Introduction to Remote Sensing and Image Processing* - Graduate level
*ES 919: Environmental Remote Sensing* - Graduate level
*ES 906: Environmental Geology* - Graduate level
*ES 903: General Ecology* - Graduate level

Courses taught at Department of Geology, Bowling Green State University, Bowling Green, OH.

*GEOL 680: Biological Remote Sensing* - Graduate level
*GEOL 440/540: Geological Remote Sensing* - Undergraduate/Graduate level

Teaching load and level by year at Texas Southern University

**2011 Fall**

*GEOL 141: Introduction to Earth (4 credit)* - Undergraduate level (87 Students; Without Teaching Assistant)

**2012 Spring**

*GEOL 141: Introduction to Earth (4 credit)* - Section 1- Undergraduate level (100 Students; Without Teaching Assistant)

*GEOL 141: Introduction to Earth (4 credit)* - Section 2- Undergraduate level (109 Students; Without Teaching Assistant)

*ES 906: Environmental Geology (3 credit)* - Graduate level (18 Students)

**2012 Summer I**

*GEOL 141: Introduction to Earth (4 credit)* - Section 1- Undergraduate level (31 Students; Without Teaching Assistant)

**2012 Summer II**

*GEOL 141: Introduction to Earth (4 credit)* - Section 2- Undergraduate level (51 Students; Without Teaching Assistant)

**2012 Fall**

*GEOL 141: Introduction to Earth (4 credit)* - Section 1- Undergraduate level (108 Students)

*GEOL 141: Introduction to Earth (4 credit)* - Section 2- Undergraduate level (107 Students)

*GEOL 141: Introduction to Earth (4 credit)* - Section 3- Undergraduate level (100 Students)

**2013 Spring**

*GEOL 141: Introduction to Earth (4 credit)* - Section 1- Undergraduate level (104 Students)
ES 919: Special Topics- Environmental Remote Sensing (3 credit) - Graduate level (13 Students)  
2013 Fall  
GEOL 141: Introduction to Earth (4 credit) - Section 1- Undergraduate level (110 Students)  
GEOL 141: Introduction to Earth (4 credit) - Section 2- Undergraduate level (110 Students)  
GEOL 141: Introduction to Earth (4 credit) - Section 3- Undergraduate level (98 Students)  
2014 Spring  
GEOL 141: Introduction to Earth (4 credit) - Week End Section 1- Undergraduate level (43 Students)  
ES 906: Environmental Geology (3 credit) - Graduate level (30 Students)  
ES 704: Aquatic Resources and Pollution - Graduate level – For Three Months (17 Students)  
2014 Fall  
GEOL 141: Introduction to Earth (3 credit) - Section 2- Undergraduate level (117 Students)  
GEOL 141: Introduction to Earth (3 credit) - Section 3- Undergraduate level (121 Students)  
ES 703: Environmental Science (3 credit) - Graduate level (13 Students)  
ES 718: Special Topics- Remote Sensing and Image Interpretation (3 credit) - Graduate level (6 Students)  
ES 925: Research and Dissertation (variable credit) - Graduate level (2 Students)  
2015 Spring  
ES 903: General Ecology (3 credit) - Graduate level (19 Students)  
ES 724: Research Problems (variable credit) - Graduate level (2 Students)  
ES 925: Research and Dissertation (variable credit) - Graduate level (3 Students)  
2015 Fall  
ES 724: Research Problems (variable credit) - Graduate level (2 Students)  
ES 925: Research and Dissertation (variable credit) - Graduate level (2 Students)  
2016 Spring  
ES 906: Environmental Geology (3 credit) - Graduate level (29 Students)  
ES 920: Special Topics – Spectral Reflectance and Remote Sensing (3 credit) - Graduate level (7 Students)  
ES 724: Research Problems (variable credit) - Graduate level (4 Students)  
ES 925: Research and Dissertation (variable credit) - Graduate level (3 Students)  
2016 Fall  
ES 703: Environmental Science (3 credit) - Graduate level (19 Students)  
ES 724: Research Problems (variable credit) - Graduate level (2 Students)  
ES 925: Research and Dissertation (variable credit) - Graduate level (2 Students)  
2017 Spring
ES720: Geographical Information Systems for Environmental Sciences (3 credit) - Graduate level (15 Students)

ES 724: Research Problems (variable credit) - Graduate level (1 Student)
ES 925: Research and Dissertation (variable credit) - Graduate level (1 Student)

2017 Fall
ES730: Introduction to Remote Sensing and Image Interpretation (3 credit) - Graduate level (8 Students)
ES 903: General Ecology (3 credit) - Graduate level (14 Students)
ES 724: Research Problems (variable credit) - Graduate level (1 Student)
ES 925: Research and Dissertation (variable credit) - Graduate level (1 Student)

2018 Spring
ES 906: Environmental Geology (3 credit) - Graduate level (30 Students)
ES 724: Research Problems (variable credit) - Graduate level (1 Student)
ES 925: Research and Dissertation (variable credit) - Graduate level (1 Student)

2018 Fall
ES 724: Research Problems (variable credit) - Graduate level (1 Student)
ES 925: Research and Dissertation (variable credit) - Graduate level (1 Student)

2019 Spring
ES 724: Research Problems (variable credit) - Graduate level (1 Student)
ES 925: Research and Dissertation (variable credit) - Graduate level (1 Student)

2019 Fall
ES 724: Research Problems (variable credit) - Graduate level (2 Student)
ES 925: Research and Dissertation (variable credit) - Graduate level (1 Student)
ES 903: General Ecology (3 credit) - Graduate level (6 Students)
ES730: Introduction to Remote Sensing and Image Interpretation (3 credit) - Graduate level (5 Students)

Teaching load as Fulbright Scholar at Makerere University, Kampala, Uganda.

2018 Fall (called as 2018-19 Semester I)
GLM 8103: Image Processing for Remote Sensing (3 credit) - Graduate level (14 Students)
LSG 3103: Mapping from Satellite Imagery (4 credit) - Undergraduate level (47 Students)

2019 Spring (called as 2018-19 Semester II)
LSG 1205: Geo Hazards and Environmental Studies (3 credit) - Undergraduate level (34 Students)
PATENTS

RESEARCH GRANTS FUNDED
7. Maruthi Sridhar BB. (PI). Landscape level patterns of mercury contamination and bioaccumulation in East Fork Poplar Creek (EFPC) watershed, 2014-2015, $ 15,000. (Funded - DOE Grant)
9. Maruthi Sridhar BB. (PI). Monitoring agricultural sewage sludge, 2012-2013, $10,860. (Funded – USDA subcontract through University of Toledo) Sub Award No. 10390057-TSU
10. Vincent RK, Maruthi Sridhar BB. Calibration and validation of remote sensing data for the Lower Colorado River Region, 2007-2011, $56,000. (Funded – USBR subcontract through Central State University)

11. Vincent RK, Maruthi Sridhar BB. Monitoring agricultural sewage sludge, 2010-2013, $468,000. (Funded – USDA subcontract through University of Toledo)


SKILLS
    Instrumental:
    Soil and Plant Chemical Analysis: Inductively coupled plasma Optical Emission Spectroscopy (ICP-OES), Microwave Digestion, Atomic Absorption Spectroscopy (AAS), Calorimetry.
    Remote Sensing: ASD Spectroradiometer (350-2500 nm), FTIR Spectroradiometer (2-16 µm)
    Computer:
    Geospatial Packages: ER Mapper, ERDAS, ENVI, Arc GIS.
    Statistical Packages: SAS, Minitab, SPSS

PROFESSIONAL HONORS: FELLOWSHIPS AND AWARDS

Fellowships
    2014 Department of Energy (DOE) Visiting Faculty Fellowship for Oak Ridge National Lab, Oak Ridge, TN.
    2013 Department of Energy (DOE) Visiting Faculty Fellowship for Oak Ridge National Lab, Oak Ridge, TN.

Awards
    2018 Fulbright Scholar Award. Awarded Fulbright Core US scholar award to conduct research and teaching in Kampala, Uganda.
    2018 Award of Honor. Awarded first place in faculty oral presentation by the Office of Research, Texas Southern University in Research Week, 2018.
    2016 Award of Honor. Awarded second place in faculty oral presentation by the Office of Research, Texas Southern University in Research Week, 2016.
    2015 Distinguished Research and Scholarly Activity Award. Awarded for Outstanding Research and Scholarly Accomplishments in College of Science, Engineering and Technology (COSET) at Texas Southern University (TSU), Houston, TX.
    2015 Award of Appreciation. Awarded for being the Keynote Speaker at the TSU Research Week-2015, March 31- April 2, Houston, TX.
    2014 Award of Special Recognition. Awarded for the poster presentation in 14th Annual Houston Area GIS Day Conference, November 19-21, Houston, TX.
2012  *Award of Honor*. Awarded third place in faculty oral presentation by the Office of Research, Texas Southern University in Research Week, 2012.

2004  *American Association of Scientists of Indian Origin Graduate student recognition Award*. Awarded for outstanding academic and research performance in Environmental and Soil Science.

2004  *Mississippi State University Office of Research’s Graduate Student Research Award*. Awarded for Research Excellence.

2004  *Mississippi State University Office of Graduate Studies Graduate Student Recognition Award*. Awarded for Outstanding academic and research performance.

2003  *Society of Wood Science and Technology Best Student Poster Award*. Awarded First place in 46th annual meeting of Society of Wood Science and Technology at Bellevue, WA.

2003  *Battelle Best Graduate Student Research Paper Award*. Awarded First Place in The 7th International Symposium of In Situ and On-site Bioremediation, Orlando, FL.

2003  *Mississippi State University Graduate Student Travel Support Grant*. Awarded to attend Soil Society of America Annual Meetings, Denver, CO. November 2-6, 2003. $ 500

2003  *Battelle Research Institute Graduate Student Travel Support Grant*. Awarded to attend The 7th International Symposium of In Situ and On-site Bioremediation, Orlando, FL. June 2-5, 2003. $ 2000

2001-2004  *Mississippi State University Graduate Research Assistantship."

1997-2000  *A.N.G.R. Agricultural University, India, Graduate Research Assistantship."

**PUBLICATIONS AND PRESENTATIONS**

**Publication Summary**

Published (105): Book Chapters (4), Refereed Journal Articles (28), Conference Abstracts (73).

**BOOK CHAPTERS**


REFEREED JOURNAL PUBLICATIONS

*Graduate Student


1. **Maruthi Sridhar BB**. 2017. Impact of land use on Hurricane Harvey flooding in Houston-Galveston region. SENRA (Section on Environmental and Natural Resources Administration) News Letter, 12: 3-6.


**PUBLISHED CONFERENCE ABSTRACTS AND PRESENTATIONS**

*Graduate Student; # Undergraduate Student

1. #Mack L, **Maruthi Sridhar BB**. 2019. Assessing the cytotoxicity of the soil and water samples from Buffalo Bayou on human gut cells. Emerging Researchers National (ERN) Conference in STEM, American Association for the Advancement of Science (AAAS), February 21-23, Washington, DC.


10. **Maruthi Sridhar BB**. 2018. Monitoring and mapping the Hurricane Harvey flooding in Houston, Texas. TSU Research Week, March 26-30, Houston, TX.

11. #Johnson J, **Maruthi Sridhar BB**, Keita D. 2018. Monitoring and mapping the nutrient and metal concentrations in the Green bayou watershed, TX. TSU Research Week, March 26-30, Houston, TX.


13. #Johnson J, **Maruthi Sridhar BB**, Keita D. 2018. Monitoring and mapping the nutrient and metal concentrations in the Green bayou watershed, TX. Emerging Researchers National (ERN) Conference in STEM, American Association for the Advancement of Science (AAAS), February 22-24, Washington, DC.


17. **Maruthi Sridhar BB**, Rosenzweig J, Shishodia S. 2017. Infusion of climate change and geospatial science concepts into environmental and biological science curriculum. AGU Fall Meetings, December 11-15, New Orleans, LA.


25. Maruthi Sridhar BB. 2017. Climate change and water quality. Forum on Struggle Against Climate Change: Realities and Social Actions, Organized by Global Embassy for Activists for Peace at Rice University, March 7, Houston, TX. (Invited Talk)


34. #Torres A, Maruthi Sridhar BB. 2016. Bioaccumulation of Environmental Contaminates in Bear Creek, Tennessee. NSF- HBCU-UP/CREST PI/PD Meeting, American Association for the Advancement of Science (AAAS), Feb 25-27, Washington, DC.


37. #Torres A, Maruthi Sridhar BB. 2015. Bioaccumulation of Environmental Contaminates in Bear Creek, Tennessee. Gulf Coast Undergraduate Research Symposium (GCURS), Rice University, Houston, TX, October 17, 2015.


41. Maruthi Sridhar BB. 2015. Landscape level patterns of mercury contamination and bioaccumulation in East Fork Poplar Creek (EFPC) watershed. TSU Research Week, March 31 – April 2, Houston, TX.

42. Maruthi Sridhar BB, Peterson M, Bevelhimer M. 2015. Geospatial models to map mercury dynamics at watershed scale. NSF- HBCU-UP/CREST PI/PD Meeting, American Association for the Advancement of Science (AAAS), Feb 18-19, Washington, DC.


45. **Lakkaraju S, Maruthi Sridhar BB.** 2015. Geospatial and statistical analysis of methyl mercury (MeHg) and polychlorinated biphenyl (PCB) distribution in East Tennessee watersheds. TSU Research Week, Texas Southern University, Houston, TX, March 31- April 2, 2015.

46. **Saah G, Maruthi Sridhar BB.** 2015. Analysis of urban sprawl and its effect on urban environmental characteristics using spectral reflectance and Landsat data in Harris County, Texas. TSU Research Week, Texas Southern University, Houston, TX, March 31- April 2, 2015.

47. **Esmaeili M, Maruthi Sridhar BB.** 2015. Land use and land cover change in Galveston County, Texas. TSU Research Week, Texas Southern University, Houston, TX, March 31- April 2, 2015.

48. **Alhassan F, Maruthi Sridhar BB.** 2014. Land cover change analysis of the Buffalo San Jacinto watershed region in Texas, 14th Annual Houston Area GIS Day Conference, November 19-21, Houston, TX.

49. **Eltayeb HA, Maruthi Sridhar BB.** 2014. Land use and land cover changes in the North Galveston Bay watershed region in Texas, 14th Annual Houston Area GIS Day Conference, November 19-21, Houston, TX.


51. **Heydari S, Maruthi Sridhar BB.** 2014. Analysis of temporal land cover changes in East Galveston watershed region of Texas, 14th Annual Houston Area GIS Day Conference, November 19-21, Houston, TX.

52. **Mosley J, Maruthi Sridhar BB.** 2014. Land cover change in Greater Lubbock area, Lubbock County, Texas, 14th Annual Houston Area GIS Day Conference, November 19-21, Houston, TX.

53. **Maruthi Sridhar BB, Peterson M, Bevelhimer M.** 2014. Geospatial database to map mercury concentration in East Fork Poplar Creek (EFPC) watershed. 14th Annual Houston Area GIS Day Conference, November 19-21, Houston, TX.

54. **Saah G, Maruthi Sridhar BB.** 2014. Analysis of urban sprawl and its effect on urban environmental characteristics using spectral reflectance and Landsat data, 14th Annual Houston Area GIS Day Conference, November 19-21, Houston, TX.

55. **Maruthi Sridhar BB, Peterson M, Bevelhimer M.** 2013. Geospatial database to map mercury concentration in East Fork Poplar Creek (EFPC) watershed. Society of Environmental Toxicology and Chemistry (SETAC) North America 34th Annual Meetings, November 17-21, Nashville, TN.

56. **Maruthi Sridhar BB, Peterson M, Bevelhimer M.** 2013. Geospatial database to map mercury concentration in East Fork Poplar Creek Watershed (EFPC) watershed. ORAU Faculty Poster Session, August 6, Oak Ridge National Lab (ORNL), Oak Ridge, TN.

57. **Maruthi Sridhar BB, Vincent RK.** 2012. Remote sensing of soybean stress as an indicator of chemical concentration of biosolid amended surface soils. SSSA annual meetings, October 21-24, Cincinnati, OH.


70. Maruthi Sridhar BB, Vincent RK. 2006. Monitoring the application of sewage sludge to agricultural fields using spectral reflectance and remote Sensing. 18th World Congress of Soil Science, July 9-15, 2006, Philadelphia, PA
71. **Maruthi Sridhar BB**, Vincent RK. 2005. Monitoring the application of sewage sludge to agricultural fields using spectral reflectance and remote sensing. 4th Annual BGSU Research Conference, November 3-4, Bowling Green, OH.


73. Han FX, Diehl SV, Monts DL, Su Y. 2004. Effect of high soil concentrations of mercury on growth, physiology and internal structure of plants. SSSA annual meetings, November 1-4, Seattle, WA.

74. **Maruthi Sridhar BB**, Diehl SV, Su Y, Monts DL, Han FX. 2004. Remote monitoring of structural and physiological changes in fern (*Pteris vittata*) plants during phytoremediation of Cr and As contaminated soils. 2nd Graduate Student Symposium, Mississippi State University, Mississippi State, MS.

75. **Maruthi Sridhar BB**. Han FX, Diehl SV, Monts DL, Su Y. 2004. Discrimination of chromium phytotoxicity to plants using hyperspectral reflectance. SSSA annual meetings, November 1-4, Seattle, WA.

76. **Maruthi Sridhar BB**, Diehl SV, Su Y, Monts DL, Han FX. 2003. Changes in anatomical characters of plants subjected to heavy metal contamination. SSSA annual meetings, November 2-6, Denver, CO.


78. **Maruthi Sridhar BB**, Diehl SV, Su Y, Monts DL. 2003. Monitoring the internal structure of barley plants subjected to metal phytoremediation. 7th International symposium on insitu and onsite bioremediation, Orlando, FL.


80. **Maruthi Sridhar BB**, Diehl SV, Su Y, Monts DL. 2003. Structural and ultrastructural changes in plants subjected to metal phytoremediation. 7th International symposium on insitu and onsite bioremediation, Orlando, FL.


82. **Maruthi Sridhar BB**, Su Y, Monts DL, Diehl SV. 2002. Monitoring leaf reflectance and internal structure of barley during phytoremediation of heavy metals. SSSA annual meetings, Indianapolis, IN.

83. Su Y, **Maruthi Sridhar BB**, Monts DL. 2002. Monitoring the process of phytoremediation of metal contaminated soil by Near IR Reflectance spectroscopy, ACS Meeting, Orlando, FL.

84. Su Y, **Maruthi Sridhar BB**, Monts DL. 2002. Monitoring the process of phytoremediation of zinc by barley (*Hordeum vulgare*) using visible and near infrared diffuse reflectance
spectrometry. The 9th Biennial International conference on nuclear and hazardous waste management, Reno, NV.


MENTOR AND ADVISOR - NSF FUNDED SUMMER INTERNSHIP UNDERGRADUATE STUDENTS
1. Torye Smith (BS Biology- Junior; Summer 2019) – NSF-TI Grant
2. Ebony Wiltz (BS Chemistry-Junior; Summer 2019) – NSF-TI Grant
3. Alexander Cruz (BS Transportation-Sophomore; Summer 2019) – NSF-TI Grant
4. Esther Sey (BS Biology- Senior; Summer 2019) – NSF-TI Grant
5. Nikole Hernandez (BS Chemistry-Junior; Summer 2018) – NSF-TI Grant
6. Esther Sey (BS Biology- Junior; Summer 2018) – NSF-TI Grant
7. Leanna Mack (BS Biology- Junior; Summer & Fall 2018) – NSF-TI Grant
8. Thaddeaus Johnson (BS Chemistry-Sophomore; Summer 2018) – NSF-TI Grant
9. Adriana Rodriguez (BS Biology- Senior; Spring & Summer 2018) – NSF-TI Grant
10. Malikiya Roberson (BS Transportation-Sophomore; Summer 2017) – NSF-TI Grant
11. Naomi Walker (BS Civil Engineering-Junior; Summer & Fall 2017) – NSF-TI Grant
12. Jericho Johnson (BS Chemistry-Junior; Summer & Fall 2017) – NSF-TI Grant
13. Ibrahim Adeyemi (BS Biology- Junior; Summer 2017) – NSF-TI Grant
14. Adriana Rodriguez (BS Biology- Junior; Summer 2017) – NSF-TI Grant
15. Chioma Anugwam (BS Biology- Sophomore; Summer 2016) – NSF-RIA Grant
16. Nancy Osazuwa (BS Biology- Sophomore; Summer 2016) – NSF-RIA Grant
17. Reginald Johnson (BS Biology- Junior; Summer 2015) - NSF-RIA Grant
18. Alex Torres (BS Chemistry-Senior; Summer 2015) - NSF-RIA Grant

GRADUATE STUDENTS ADVISED
PhD: Major Advisor (4); Committee member (5)
MS: Major Advisor (5); Committee member (10)

∞Major Advisor
Students Graduated
1. ∞Adesope Akinsanya (MS Environmental Toxicology, Fall 2017). Thesis Title: “Mapping and monitoring the long-term water quality characteristics in Galveston Bay, Texas”
2. ∞Habibur Howlider (MS Environmental Toxicology, Fall 2017). Thesis Title: “Changes in flood plain soil characteristics of Brays and Sims bayou watershed in Texas”
3. ∞Segun Adelanke (MS Environmental Toxicology, Fall 2016). Thesis Title: “Geospatial evaluation of landscape factors on the mercury and methyl mercury availability in East Fork Poplar Creek Watershed in Tennessee”
4. Sharmila Bhandari (PhD Environmental Toxicology, Fall 2016). Dissertation Title: “Impact of landscape changes on the environmental quality of Brays and Sims Bayou Watershed, TX”

5. Shruti Lakkaraju (MS Environmental Toxicology, Fall 2016). Thesis Title: “Impact of Environmental and Land cover changes on the water quality characteristics of East Tennessee Watersheds”

6. Gilbert Saah, (PhD Environmental Toxicology, Fall 2016). Dissertation Title: “Analysis of urban sprawl and its effect on environmental characteristics using spectral reflectance and Landsat data in Harris County, Texas”

7. Bo Wei (PhD Environmental Toxicology, Expected Fall 2016). Dissertation Title: “Geospatial characterization of environmental pollution and its impact on human health in the Houston Ship Channel Region”

8. Fabrice Fankem Fandom (MS Environmental Toxicology, Fall 2013). Thesis Title: “Environmental exposures and impact of asthma on pregnancy”

9. Njekeh Franklin Caspa, (PhD Environmental Toxicology, Spring 2013). Dissertation Title: “The Impact of environmental stressors on maternal and infant health outcomes”

**Current Students**

∞ Adeola Mosuro, (MS Environmental Toxicology, Expected Spring 2020).
∞ Titilope Bukunmi-Omidiran, (PhD Environmental Toxicology, Expected Fall 2020).

**Committee Member**

1. Sedidheh Heydari, (PhD Environmental Toxicology, Fall 2019). Dissertation Title: “Involvement of PPARγ in alteration of mechanisms of autophagy pathway in Acrolein toxicity”

2. Amoge Uwalaka, (MS Environmental Toxicology, Spring 2018). Thesis Title: “Analysis of pond water for heavy metal and pesticide contamination in Harris County, Texas”

3. Felica Davis, (MS Environmental Toxicology, Spring 2018). Thesis Title: “Spatial temporal patterns of polycyclic aromatic hydrocarbons contamination in the Houston Ship Channel’s Sediment”

4. Theresa Jibunor (PhD Environmental Toxicology, Fall 2017). Dissertation Title: “Bombax cieba: A potential source for biodiesel production”

5. Durelle Jacob, (PhD Environmental Toxicology, Fall 2017). Dissertation Title: “Animal fat residue and cooking oils: The transesterification and purification of a potential source for biodiesel production”

6. Matthew Fiala, (PhD Environmental Toxicology, Spring 2017). Dissertation Title: “Development of transport model for heavy metals from non-exhaust traffic emissions”


8. Obinna Nlemedim, (MS Environmental Toxicology, Spring 2017). Thesis Title: “Organic chemical compounds in different brands of different smoke”
9. Christabel Ebuzoeme (MS Environmental Toxicology, Fall 2016). Thesis Title: “The photochemical effects of LED lights on various cooking oils”

10. Qing Li, (PhD Environmental Toxicology, Fall 2016). Dissertation Title: “Impacts of weaving segment design on environment and public health”

11. Olufunmilayo A. Owopetu (MS Environmental Toxicology, Spring 2016). Thesis Title: “Caenorhabditis elegans as a model organism for studying the toxic effects of Bromacil”

12. Parise Henry (MS Environmental Toxicology, Spring 2016). Thesis Title: “Caenorhabditis elegans as a model for fatty acid biomarkers of exposure to an arsenic herbicide”


16. Gloria Okome, (PhD Environmental Toxicology, Fall 2013). Dissertation Title: “Models of fate and transport of pollutants in surface waters”

17. Chakravarthy Koricherla (MS Chemistry, Fall 2013). Thesis Title: “Synthesis and characterization of ruthenium complex containing hypoxanthine as equatorial ligand”

18. Chioma Ihemadu (MS Environmental Toxicology, Fall 2013). Thesis Title: “Analysis of persistent organic compounds and trace metals in urine samples of young adults”

SERVICE TO THE PROFESSION AND COMMUNITY

INDEPENDENT REVIEWER OF INTERNATIONAL JOURNALS
International Journal of Remote Sensing
Water Air and Soil Pollution
Soil Sediment and Contamination
Soil Science Society of America Journal
Journal of Hazardous Materials
Naturwissenschaften
Journal of Asian Earth Sciences
International Journal of Health Geographics
GeoCarto International
Agronomy Journal
Science of Total Environment
Environmental Pollution

MEMBERSHIP IN PROFESSIONAL SOCIETIES
Soil Science Society of America
Crop Science Society of America
American Society of Agronomy
American Society of Photogrammetry and Remote Sensing
American Geophysical Union
American Association for the Advancement of Science
SERVICE TO THE UNIVERSITY

2014- Present  
**Director of Environmental Toxicology Program, Department of Environmental and Interdisciplinary Sciences (EIS), Texas Southern University, Houston, TX.**

2012- 2018  
**Member of the General Education Committee, representing Department of EIS for Geology (GEOL 141) Course at University Level.**

2012- Present  
**Member of the Fellowship Committee, representing Department of EIS at College (COSET) Level.**

2015- 2018  
**Member of the Grievance Committee (Faculty, Students), representing Department of EIS at College (COSET) Level.**

2015- 2017 & 2019-Present  
**Member of the Suspension and Readmission Committee, representing Department of EIS at College (COSET) Level.**

2012- 2015  
**Member of the Assessment Committee, representing Department of EIS at University Level.**
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Curriculum Vitae

Mark Butler

Professor & Eminent Scholar
Department of Biological Sciences
Old Dominion University
Norfolk, Virginia 23529-0266

Education

Ph.D. Biological Science, 1988 - Florida State University, Tallahassee, FL
M.S. Zoology, 1983 - Ohio State University, Columbus, OH
B.A. Biology, 1980 cum laude - Wittenberg University, Springfield, OH

Employment

2010 Eminent Scholar, Department of Biological Sciences, Old Dominion University
2000 Professor, Department of Biological Sciences, Old Dominion University
1994 Associate Professor, Department of Biological Sciences, Old Dominion University
1989 Assistant Professor, Department of Biological Sciences, Old Dominion University
1988-1989 Guyer Postdoctoral Fellow, Center for Limnology and Department of Zoology, University of Wisconsin
                     Visiting Professor in Oceanography, Department of Geology and Oceanography, University of Wisconsin
1988 Postdoctoral Research Associate, Department of Biological Science, Florida State University

Adjunct Faculty Appointments
2007-2010 University of Florida, Dept. Fisheries & Aquatic Sciences
1998-2002 Old Dominion University, Dept. of Ocean, Earth & Atmospheric Sciences
1999-2005 Florida State University, Dept. of Biological Sciences
Administrative Positions

2015-2019  Director, Marine Biology Concentration Program, Department of Biological Sciences, Old Dominion University
2002-2004  Assistant Chairman, Department of Biological Sciences, Old Dominion University
1996-2000  Graduate Program Director, Department of Biological Sciences, Old Dominion University

Publications

My students, co-principal investigators and I have published over 150 scientific articles and book chapters. Those publications are listed below separately under peer-reviewed journal articles, book chapters, and other articles. (Note: student authors are indicated in italics.)

Peer-Reviewed Journal Articles:


**Books and Book Chapters:**


Other Published Articles and Abstracts:


**Articles Currently In Review:**


**Manuscripts in Preparation:** (draft manuscripts in final stages of preparation)


I have been author or co-author on over 250 presentations at scientific conferences. Those presentations are broken down below into invited presentations, first authored presentations, and co-authored presentations. (Note: student authors are in italics.)

**Invited Presentations at Conferences:**


**First Authored Contributed Presentations:**


40. Butler, Mark J. IV., Alison McDiarmid, Thomas Dolan, and Michael Goodrich. 2006. Modeling sperm limitation in spiny lobsters in MPAs & fished areas in Florida and New Zealand. Marine Benthic Ecology Meeting, Quebec, CANADA.

Co-authored Presentations: (Note: student authors in italics.)
158. Gnanalingam, G. and M.J. Butler. 2017. The importance of keeping the big ones: management of Caribbean spiny lobster, Panulirus argus to conserve large individuals. 11th International Lobster Conference and Workshop, Portland, ME.


152. Gnanalingam G. and Butler M.J. 2017. The Importance of Keeping the Big Ones: Clutch quality and Reproductive Senescence in Caribbean Spiny Lobster. 46th Benthic Ecology Meeting, Myrtle Beach, South Carolina.


150. Spadaro, A.J. and Butler, M.J. 2017. The bigger picture: cascading effects of the Caribbean King Crab on the community structure of coral patch reefs. 46th Benthic Ecology Meeting, Myrtle Beach, South Carolina.

149. Gnanalingam G. and Butler M.J. 2016. The Importance of Keeping the Big Ones: Clutch quality and Reproductive Senescence in Caribbean Spiny Lobster. 69th Gulf and Caribbean Fisheries Institute Meeting, Grand Cayman.


140 Butler, J. and M. Butler. 2015. Bring the noise: sound playback increases species diversity on degraded hard-bottom habitat in the Florida Keys. 44th Benthic Ecology Meeting, Quebec, Canada.

139 Spadaro, A. and M. Butler. 2015. Multiple effects of Caribbean King Crab enhancement on patch reef communities in the Florida Keys. 44th Benthic Ecology Meeting, Quebec, Canada.

138 Vincent, J. and M. Butler. 2015. The Effect of Sponge Restoration on Fish and Invertebrate Communities in the Florida Keys. 44th Benthic Ecology Meeting, Quebec, Canada.
127. Gutzler, B. and Mark Butler. 2013 “Casitas as an ecological trap for the spiny lobster Panulirus argus? Preliminary results from the Florida Keys, FL (USA)”, 42nd Benthic Ecology Meeting, Savannah, GA.
123. Behringer, D., J. Moss, J.D. Shields, M. J. Butler IV. 2012. Disease through the ages (or stages): the effects of PaV1 infection on Caribbean spiny lobsters through ontogeny. Benthic Ecology Meeting, Norfolk, VA.


82. Shields, J.D., D.C. Behringer, and Mark Butler. 2007. Epidemiological studies of *Panulirus argus* Virus I (PaV1) in the Caribbean Spiny Lobster. 8th International Lobster Conference, Prince Edward Island, Canada

81. Li, C., J.D. Shields, R.E. Ratzlaff, M.J. Butler. 2007 Histopathology and hemolymph chemistry of PaV1 infections in the Caribbean spiny lobster. 8th International Lobster Conference, Charlottetown, PEI, Canada, September.

80. Garcia-Sanz, Sara, Alex Hearn, Eduardo Espinoza, and Mark Butler. 2007. Recruitment of red (*Panulirus penicillatus*) and green (*Panulirus gracilis*) spiny lobsters in the Galápagos Islands. 8th International Lobster Conference, Prince Edward Island, Canada

79. Behringer, Donald, Mark Butler, and William Herrnkind. 2007. Is seagrass an important nursery habitat for Caribbean spiny lobsters? 8th International Lobster Conference, Prince Edward Island, Canada

78. Behringer, Donald, Mark Butler, and Jeffery Shields. 2007. The function of behavior in reducing PaV1 infection risk among Caribbean spiny lobsters and potential modes of transmission. 8th International Lobster Conference, Prince Edward Island, Canada

77. Kintzing, Meredith and Mark Butler. 2007. Investigating the role of the spotted spiny lobster (*Panulirus guttatus*) on the coral reef communities of the Florida Keys (USA). 8th International Lobster Conference, Prince Edward Island, Canada

76. Lear, Jennifer, Mark Butler, and Jason Schratweiser. 2007. The Impact of Grouper and Octopus Predators on Population Structure, Shelter Use, and Behavior of Juvenile Caribbean Spiny Lobster. 8th International Lobster Conference, Prince Edward Island, Canada

75. Dolan, Thomas and Mark Butler. 2007. Modeling the epizootiology of a virulent lobster disease when behavior and perhaps fishery practices matter. 8th International Lobster Conference, Prince Edward Island, Canada

74. Goldstein, Jason, Hirokazu Matsuda, and Mark Butler. 2007. Behavior of larval and postlarval Caribbean spiny lobster and implications for connectivity. 8th International Lobster Conference, Prince Edward Island, Canada
73. Behringer, Don, Mark Butler, Jeff Shields. 2007. Sex, hot spots, and exposure: advances in understanding the ecology and epidemiology of the lethal Caribbean spiny lobster virus PaV1. Benthic Ecology Meeting, Atlanta, GA.
60. Goldstein, J. and M. Butler. 2004. Postlarval detection of coastal chemical cues and their effect on metamorphosis in Caribbean spiny lobster, Panulirus argus. 7th International Lobster Conference and Workshop, Hobart, Tasmania
57. Lear, J. and M. Butler. 2004. Strong interactions between juvenile Caribbean spiny lobster, Panulirus argus, and Caribbean reef octopus, Octopus briarius. 7th International Lobster Conference and Workshop, Hobart, Tasmania.


41. MacDiarmid, A.B., M. J. Butler IV, and Rodney D. Bertelsen. 2000. Mate choice and competition in spiny lobsters. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL.


38. Robertson, Denice and M. J. Butler IV. 2000. The target-area hypothesis and the Spotted spiny lobster, Panulirus guttatus. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL.

37. Dolan, Thomas III and M. J. Butler IV. 2000. Modeling ontological changes in the social behavior of juvenile Caribbean spiny lobster, Panulirus argus. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL.

36. Schratwieser, Jason and M. J. Butler IV. 2000. Male reproductive dynamics in the Caribbean spiny lobster, Panulirus argus. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL.


34. Heisig, J.S. and M. J. Butler IV. 2000. Male reproductive dynamics in the Caribbean spiny lobster, Panulirus argus. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL.


**Invited Presentations at Universities, Research Institutions, or Management Agencies:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Event/Institution</th>
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<tbody>
<tr>
<td>2019</td>
<td>Virginia Institute of Marine Science</td>
</tr>
<tr>
<td>2018</td>
<td>Smithsonian National Laboratory, Washington, D.C.</td>
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<tr>
<td>2017</td>
<td>Scripps Institute of Oceanography, San Diego, CA</td>
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<tr>
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<td>John Pennekamp State Park, Key Largo, FL</td>
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<td>Keys Marine Laboratory, Long Key, FL</td>
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<td></td>
<td>Florida Keys Backcountry Workshop, Tavernier, FL</td>
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<td>2016</td>
<td>Marine Stewardship Council Lobster Management Workshop, Cancun, Mexico</td>
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<td></td>
<td>Virginia Modeling &amp; Simulation Program, Norfolk, VA</td>
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<tr>
<td>2015</td>
<td>University of North Carolina-Wilmington, Wilmington, NC</td>
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<tr>
<td>2014</td>
<td>Dauphin Island Sea Laboratory, Universities of Alabama Consortium, Mobile, AL</td>
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<td>FAO Western Atlantic Fisheries Commission, Panama City, Panama</td>
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<td></td>
<td>Caribbean Regional Fisheries Mechanism Secretariat, Roussou, Dominica</td>
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<tr>
<td></td>
<td>Florida Keys National Marine Sanctuary Board, Marathon, FL</td>
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<td></td>
<td>Virginia Institute of Marine Science, Wachapreague, VA</td>
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<tr>
<td>2013</td>
<td>Goshen College, Goshen, IN</td>
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<td>2012</td>
<td>University of Auckland, Auckland, New Zealand</td>
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<td>Leigh Marine Laboratory, Leigh, New Zealand</td>
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<td>East Carolina University, Greenville, NC</td>
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<td>Old Dominion University, Norfolk, VA</td>
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<tr>
<td>2011</td>
<td>University of Manchester, Manchester, UK</td>
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<td>North Carolina State, Raleigh, NC</td>
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<td>Hillsdale College, Long Key, FL</td>
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<td>Virginia Institute of Marine Science Eastern Shore Laboratory</td>
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<td>Belize Fisheries Department, Belize City, Belize</td>
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<td>2009</td>
<td>Virginia Institute of Marine Science, VA</td>
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<td></td>
<td>IUCN Threatened Species Workshop on Lobsters, Taipei, Taiwan</td>
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<td>2008</td>
<td>University of Florida, Gainesville, FL</td>
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<td></td>
<td>University of Miami, Miami, FL</td>
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<tr>
<td>2007</td>
<td>Goshen College, Goshen, IN</td>
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<tr>
<td></td>
<td>Virginia Institute of Marine Science, VA</td>
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<tr>
<td></td>
<td>Old Dominion University, VA</td>
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<tr>
<td>2006</td>
<td>Colby College, Waterville, ME</td>
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</table>
Old Dominion University, VA  
2005 Universidad del Valle de Guatemala, Guatemala  
FUNDARY Marine Park, Guatemala  
Bay Islands Conservation Association, Utila, Honduras  
Wittenberg University, Springfield, OH  
2004 Tennessee Tech University, Cookville, TN  
2001 University of Barcelona, Barcelona, Spain  
Centro de Investigaciones Biologicas del Noroeste, Baha Mexico  
2000 Virginia Institute of Marine Science, Gloucester, VA  
1999 Ohio State University, Columbus, OH  
South Australian Research & Development Institute, Adelaide, SA  
Center for Coastal Physical Oceanography, Old Dominion University  
1998 University of Florida, Gainesville, FL  
Florida State University, Tallahassee, FL  
1997 Colby College, Waterville, ME  
University of Maryland-Baltimore, MD  
1996 University of Rhode Island, RI  
1995 National Institute of Water and Atmospheric Research, Wellington, New Zealand  
1994 University of Southampton, England  
University of Haifa, Israel  
1993 Old Dominion University, Norfolk, VA  
1992 College of William and Mary, Williamsburg, VA  
Old Dominion University, Norfolk, VA  
1991 Old Dominion University, Norfolk, VA  
Agency for International Development, Presidents Training Initiative for the Island Caribbean, Cancun, Mexico  
1990 Blue Crab Recruitment Workshop, Dauphin Island, AL  
1989 Virginia Institute of Marine Sciences, Gloucester Pt, VA  
1988 Los Angeles County Museum of Natural History, Los Angeles, CA  
Miami University, Oxford, OH  
Florida Atlantic University, Boca Raton, FL  
Utah State University, Logan, UT  
1983 Wittenberg University, Springfield, OH  

**Grants and Contracts**

I have been principal investigator or co-principal investigator on over 60 grants and contracts totaling over $12M, including over $500K in current funding.

**Active Grants and Contracts:**


Completed Grants and Contracts:


**Butler, M.J. IV** and W.F. Herrnkind. 2000. “Sixth International Lobster Conference and Workshop”, Florida Sea Grant, $5K


Herrnkind, W.F and M.J. Butler IV. 1998 - 2000. “Establishing the importance of postlarval supply to recruitment and management of spiny lobsters in the Florida Keys”, Florida Sea Grant, $175K


Herrnkind, W.F. and M.J. Butler IV. 1997. “Measuring and modeling the contribution of seagrass habitat to juvenile spiny lobster recruitment in Florida Bay”, Florida Sea Grant, $74K


Butler, M.J. 1991. "Protecting Caribbean spiny lobster populations: what constitutes juvenile habitat and can it be enhanced? Old Dominion University Faculty Summer Research Award, $4K


Butler, M. 1984. "Field tests of hypotheses regarding character displacement in crayfish", Sigma Xi Grant-in-Aid of Research, $380


Butler, M. and R. Stein 1981. "Competitive interactions between two species of crayfish?", Ohio State University Grant-in-Aid of Research, $350

Honors and Awards

2011 Virginia Outstanding Faculty Member of the Year, Virginia State Council of Higher Education
Nominee, US Professor of the Year

2010 Eminent Scholar, Old Dominion University
Nominee, US Professor of the Year
Finalist: State Council of Higher Education Outstanding Faculty of the Year Award

2008 Hirschfield Award for Faculty Excellence in Teaching, Research & Service, College of Sciences, Old Dominion University
Finalist, Doctoral Mentoring Award, Office of Graduate Studies, Old Dominion Univ

2005 Award for Outstanding Teaching, Department of Biological Sciences, Old Dominion Univ

1995 “Best Paper in Fisheries Science”, New Zealand Marine Sciences Conference

1991 “Most Inspiring Faculty Award”, College of Sciences, Old Dominion University

1989 “Best Oral Presentation in Basic Science”, North American Benthological Society

1988 Guyer Postdoctoral Fellowship, University of Wisconsin

1986 Marine Science Graduate Fellowship, Aylesworth Foundation
1986  Marine Science Fellowship, International Women's Fishing Association
1983  College of Sciences Fellowship, Florida State University
1980  Cum Laude, Mortar Board Honorary, Tri-Beta Honorary - Wittenberg University

Graduate Student Supervision

I have been fortunate over the years to have had in my laboratory many fine graduate students, all of whom have found employment within their field of study or went on to further their graduate training elsewhere. Those students now hold academic positions (University of Florida, Tennessee Tech University, University of Northern Kentucky, Loyola University) or important administrative positions at federal, state, and non-governmental organizations throughout the country (e.g., Science Director – NOAA/Florida Keys National Marine Sanctuary; Conservation Director - International Gamefish Association Headquarters; Staff Scientist – National Marine Fisheries Service; Scientist – Battelle National Laboratories). Students who obtained their Masters degree in my laboratory have gone on to pursue doctoral degrees at many institutions such as: MIT-Woods Hole, Florida State University, University of Edinburgh, University of New Hampshire, and University of Missouri. I have also served as an outside committee member or reviewer of doctoral dissertations at both US institutions (e.g., North Carolina State University, Virginia Institute of Marine Science, Florida State University) and universities abroad (e.g., University of Adelaide, Australia; University of Western Australia, Australia; University of the West Indies – Kingston, Jamaica; University of Manchester, England; Victoria University, New Zealand).

Postdoctoral Fellows:
Antonio Baeza (2010-2012)
Jeremy Wiesz (2005-2008)
Donald Behringer (2003-2004)
Emmanuel Ricelet (1999-2000)

Graduate Students:
28. Samantha Hagedorn (M.S. 2019), "GIS-based estimates of change in water quality due to the loss of sponge communities in the Florida Keys"
24. Jack Butler (Ph.D. 2015), Dissertation topic: "Characterization of soundscapes in shallow water habitats of the Florida Keys (USA) and their influence on the settlement of larval fish and invertebrates"
19. Meredith Kintzing (Ph.D., 2011), Dissertation: “Assessing the ecological significance of interactions between the spotted spiny lobster (Panulirus guttatus) and the long spined sea urchin (Diadema antillarum) in shaping coral reef communities in the Florida Keys.
18. Angela Mojica (M.S. 2009), Thesis: “Effect of the herbivorous channel clinging crab (Mithrax spinosissimus) on patch reef algal communities in the Florida Keys, Florida USA”
17. Scott Donahue (M.S. 2007), Thesis: “Influences of the Loggerhead sponge (Speciospongia vesparium) and the Vase sponge (Ircinia campana) on nearshore hard-bottom community development in the Florida Keys”.
14. Jennifer Lear (M.S. 2004), Thesis: “Strong interactions between juvenile Caribbean spiny lobster (Panulirus argus) and Caribbean reef octopus (Octopus briareus) in the Florida Keys, FL”
11. Donald Behringer (Ph.D. 2003), Dissertation: “The ecological ramifications of disease and density on the Caribbean spiny lobster, Panulirus argus”
8. Tom Dolan (M.S., 2000), Non-thesis: “Modeling ontological changes in the social behavior of juvenile Caribbean spiny lobster, Panulirus argus”
7. Jason Schratwieser (M.S. 1999), Thesis: “The impact of resident and transient predators on the population dynamics of juvenile Caribbean spiny lobster in Florida”
5. Charles Acosta (Ph.D.,1997), Dissertation: "Ecology of postlarval Caribbean spiny lobsters, Panulirus argus"

**Current Graduate Students:**
Emily Anderson (Ph.D.), Dissertation Topic: "Island biogeography of underwater soundscapes"
Amy Perez (M.S.), "Changes in shallow, hard-bottom sponge communities in the Florida Keys over the last two decades"
Nick Evans (M.S.), Thesis (begins fall 2019)
Samantha Glover (M.S.), Thesis (begins fall 2019)

**Undergraduate Research Assistants & Interns**

Throughout my career I have engaged and employed undergraduate students as research assistants and interns to work in my laboratory with my graduate students and I. Typically, there are 2 - 6 undergraduate student research assistants or interns working with us each year. Most have been ODU students, but for the last several years I have also accepted two students per year from a small, liberal arts college as part of a marine science partnership that I formed with Goshen College (Goshen, IN).

**Courses Taught**

**Department of Biological Sciences, Old Dominion University:**

**Current Courses:**
- Biometry (Biol 602); 4 credits; spring semester
- Marine Ecology (Biol 415W/515); 5 credits; fall semester
- Scientific Diving & Research (Biol 407/507); 5 credits; Maymester course every other summer
- Field Studies in Marine Biology (Biol 444); 5 credits; study abroad course every other summer
- Ecological Sciences Seminar (Biol 708/808)
  - A graduate seminar course that rotates among faculty. I have taught the course on the following topics: marine restoration, ecological grantsmanship, marine connectivity, statistical ecology, historical ecology, null models in ecology.

**Previous Courses:**
- Limnology (Biol 417/517)
- Experimental Marine Ecology (Biol 444/544)
- Marine Biology (Biol 232)

**Department of Geology and Oceanography, University of Wisconsin:**
- Oceanography (Geol 105)
### Professional Service

#### Scientific Meeting Activities:

<table>
<thead>
<tr>
<th>Year</th>
<th>Role/Activity</th>
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<tbody>
<tr>
<td>2019</td>
<td>Chair, Organizing Committee, 51st Benthic Ecology Meeting, Miami, FL</td>
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<tr>
<td></td>
<td>Workshop Co-organizer (2019) &quot;Direct Aging of Lobsters&quot;, Gulf &amp; Caribbean</td>
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<td>Fisheries Institute Conference, Dominican Republic</td>
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<td>International Advisory Committee, 12th International Lobster Conference and</td>
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<td></td>
<td>Workshop (2020), Perth, Western Australia</td>
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<tr>
<td>2016-2017</td>
<td>International Advisory Committee, 11th International Lobster Conference and</td>
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<tr>
<td></td>
<td>Workshop, Portland, Maine</td>
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<tr>
<td></td>
<td>Chair, Student Travel Award Committee, International Lobster Conference and</td>
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<tr>
<td></td>
<td>Session Chair, 11th International Conference &amp; Workshop on Lobster Biology,</td>
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<td></td>
<td>Portland, Maine</td>
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<td>Workshop co-organizer: Lobster Workshop for Public &amp; Fishers, Marathon, FL</td>
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<td>Workshop co-organizer: Sponge restoration Workshop for Public, Marathon, FL</td>
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<tr>
<td>1990-2019</td>
<td>Session Chair, Benthic Ecology Meeting</td>
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<tr>
<td>2014</td>
<td>Session Chair, 10th International Lobster Conference and Workshop, Cancun,</td>
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<td>Mexico</td>
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<td>Organizer, Florida Keys Sponge Ecology &amp; Restoration Workshop, Marathon, FL</td>
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<td>2013-2014</td>
<td>International Advisory Board, 10th International Lobster Conference, Mexico</td>
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<tr>
<td>2012</td>
<td>Chair, Organizing Committee, 41st Annual Benthic Ecology Meeting, Norfolk, VA</td>
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<tr>
<td>2010, 2013</td>
<td>Organizer, Florida Keys Lobster Fishermen Workshop</td>
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<tr>
<td>2009</td>
<td>International Workshop Instructor: Monitoring recruitment on coral reefs,</td>
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<td>Coral Reef Targeted Research Program: Akumal, Mexico; Turneffe Cay, Belize;</td>
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<td>Miami, FL; Roatan, Honduras; Ft. Lauderdale, FL.</td>
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<tr>
<td>2004-2009</td>
<td>Symposium organizer and Chair: “Lobster Behavior”, 8th International Lobster</td>
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<td>Conference, Prince Edward Island, Canada</td>
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<td>2005</td>
<td>Symposium organizer and Co-Chair: “Effect of Human Exploitation on Crustacean</td>
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<td>Mating Systems”, 6th International Crustacean Congress, Glasgow, Scotland</td>
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<td>2004</td>
<td>Session Chair, Benthic Ecology Meeting, Williamsburg, VA</td>
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<td>2003</td>
<td>Session Chair, 7th International Lobster Conference, Hobart, Tasmania</td>
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<tr>
<td></td>
<td>Session Chair, European Decapod Fisheries Assessment and Management Meeting,</td>
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<td>La Coruna, Spain.</td>
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<tr>
<td>2000</td>
<td>Chair, Organizing Committee, 6th International Lobster Conference, Key West,</td>
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<tr>
<td>1997</td>
<td>Symposium organizer and Chair: “Benthic ecology of lobsters”, 5th International</td>
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<td></td>
<td>Lobster Conference, Queenstown, New Zealand</td>
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<td>1993</td>
<td>Session Chair, 4th International Lobster Conference, Sanriku, Japan</td>
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<tr>
<td>1992</td>
<td>Symposium organizer and co-chair: &quot;Recruitment dynamics in marine fisheries:</td>
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<tr>
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<td>integrating basic and applied ecology&quot;, Ecological Society of America Meeting,</td>
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<td>Honolulu, Hawaii</td>
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<tr>
<td>1990</td>
<td>Co-Chairman - Program Committee, Marine Benthic Ecology Meeting, Williamsburg,</td>
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</tbody>
</table>
1990  Local Site Selection Committee, Association of Southeastern Biologists Meeting, Virginia Beach, VA
1987  Symposium organizer and chair: International Congress of Ecology - Ecological Society of America Meeting, Syracuse, NY

Other Professional Activities:
2017-2019  Executive Board, Benthic Ecology Society
2017-2018  Associate Editor, Bulletin of Marine Science
            Scientific advisor & on-location recon leader for BBC film (Bimini, Bahamas)
            Hurricane Irma Disaster Relief Volunteer
2012-2017  Advisory Board, Goshen College Marine Biology Program
2011-2013  Executive Board, Benthic Ecology Society
2012  President, Benthic Ecology Society
       Visiting Scientist, Sea & Learn Program, Saba, Netherlands Antilles
       Guest Editor, Diseases of Aquatic Organisms
2011  VA State Council of Higher Education Faculty Award Review Committee
2009 – 2013  Wetlands Board Member, City of Suffolk, VA
1998-2012  Panelist, The National Science Foundation
1996 - 2008  Editor, The Lobster Newsletter (international newsletter)
1999 – 2004  Editorial Staff, Marine Ecology Progress Series
1999  Blue Crab Scientific Task Force, Appointed by VA Secretary of Natural Resources
1995- 2003  Scientific Advisory Board, Gulf of Mexico Fishery Management Council
1993-1995  Secretary, Aquatic Ecology Section of the Ecological Society of America
1991-1995  Board of Directors, Gulf and Caribbean Fisheries Institute


Significant Departmental Service Activities:
2019  Director, Marine Biology Program
       Director, Marine Biology Study Away Program
       Faculty Advisor, ODU Marine Biology Student Association
2017-2018  Executive Committee
       Director, Marine Biology Program
       Director, Marine & Aquatics Laboratory Facility
       Faculty Advisor, ODU Marine Biology Student Association
       Chair, Faculty Search Committee - Visiting Assistant Professor in Marine Biology
2011-2017  Director, Marine Biology Program
       Director, Marine & Aquatics Laboratory Facility
       Faculty Advisor, ODU Marine Biology Student Association
2013  Chair, Promotion & Tenure Committee
       Faculty Search Committee
2008-2010 Chair, Promotion & Tenure Committee
       Chair, Seminar Committee
2008  Chair, Executive Committee
2007  Chair, Ecology/Evolutionary Biology Search Committee
2005-present Faculty Mentor
2005  Computational Biologist Search Committee
2002-2004 Assistant Departmental Chair
2002  Chair, Tenure & Promotion Committee
       Chair, Ecological/Evolutionary Biologist Faculty Search Committee
       Executive Committee
2001  Parasitology Faculty Search Committee
2000, 2002 Executive Committee
1996-2000 Graduate Program Director, Master’s in Biology Program
1997-1998 Chair, Portfolio Review Committee
1997-1998 Chair, Environmental Biology Faculty Search Committee
1994-present Curriculum Committee
1996  Chair, Executive Committee
1995  Executive Committee
1989-2000 Advisor for Biology Graduate Student Organization

**Significant University Service Activities:**

2008-2019 Chair, Dive Control Board, ODU Chapter - American Academy of Underwater Sciences
2017-2018 College of Sciences, Research Resources Committee
       Chair, College of Sciences, Promotion & Tenure Committee
       University Promotion & Tenure Committee
       Faculty Qualifications and Guidelines Committee
2016-2017 Chair, College of Sciences, Promotion & Tenure Committee
       University Promotion & Tenure Committee
       Faculty Qualifications and Guidelines Committee
2006-2017 Chair, Scientific Diving Control Board, ODU Academic Diving Program
2014-2015 College of Sciences, Promotion & Tenure Committee
2012-2015 Faculty Leader, ODU Study Abroad Program
2013-2015 Council for International Initiatives
2011 Chair, Eminent Scholar Committee
       University Research Data Management Committee
       Chair, Cobb Island Station Initiative Committee
2003-2007 College of Sciences Research Building Planning & Design Committee
2003-2004 College of Sciences Research Committee
2002-2004 College of Sciences Tenure & Promotion Committee
1998-1999 Search Committee for Vice President, Graduate Studies & Research
1998-present Committee on Marine Mammalogy program for College
1998-1999 Committee for fast-track M.S. degree in Environmental Science
1997  University Intercollegiate Athletic Committee
1997  President's "Bus Tour" to recruit students
1992 - 1994  University Intercollegiate Athletic Committee
1993  College of Sciences Computing Services Committee
1992  Committee on Integrity in Research
1991  College of Sciences Honor Code Committee
1990-1991  Faculty Senate (1990-1991)
          Committee M: Intercollegiate Athletics; chairman (1991)
1989  University Parking Services Committee

Professional Association Memberships
American Society for the Advancement of Science
Benthic Ecology Society
Crustacean Society
Gulf and Caribbean Fisheries Institute
TENURE AND PROMOTION CURRICULUM VITAE
OF
CARLOS MARTIN CHANG
COLLEGE OF ENGINEERING AND COMPUTING

(Candidates C.V. should follow the format outlined below. Where there is no reference, indicate by N/A)

EDUCATION  (List most recent degree first)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Institution</th>
<th>Field</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Ph.D.)</td>
<td>College Station, Texas, U.S.</td>
<td>- Pavements and Materials</td>
<td></td>
</tr>
<tr>
<td>Master in Science</td>
<td>Texas A&amp;M University</td>
<td>Civil Engineering - Pavement Management</td>
<td>August 1997 – July 1999</td>
</tr>
<tr>
<td>(MS)</td>
<td>College Station, Texas, U.S.</td>
<td>- Pavement Evaluation</td>
<td></td>
</tr>
<tr>
<td>Civil Engineer</td>
<td>Universidad Nacional de Ingeniería, Lima - Perú</td>
<td>Civil Engineering - Structural Analysis and Design</td>
<td>January 1990 – December 1991</td>
</tr>
<tr>
<td>Bachelor in Civil</td>
<td>Universidad Nacional de Ingeniería, Lima - Perú</td>
<td>Civil Engineering - Seismic Analysis</td>
<td>January 1982 – December 1989</td>
</tr>
<tr>
<td>Engineering</td>
<td></td>
<td>- Structural Analysis and Design</td>
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</tr>
<tr>
<td></td>
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<td>- Materials</td>
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FULL-TIME ACADEMIC EXPERIENCE  (list most recent first)

<table>
<thead>
<tr>
<th>Institution</th>
<th>Rank</th>
<th>Field</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Texas at El Paso</td>
<td>Associate Professor</td>
<td>Civil Engineering - Sustainability</td>
<td>August 2008 – August 2014</td>
</tr>
<tr>
<td>(UTEP)</td>
<td></td>
<td>- Infrastructure Management</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>El Paso, Texas, U.S.</td>
<td></td>
<td>- Pavements and Materials</td>
<td>September 2014 - Present</td>
</tr>
<tr>
<td>Texas Transportation Institute</td>
<td>Associate</td>
<td>Civil Engineering - Infrastructure Management</td>
<td>January 2005 – July 2008</td>
</tr>
<tr>
<td>(TTI) at Texas A&amp;M</td>
<td>Researcher</td>
<td>- Pavements and Materials</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>College Station, Texas, U.S.</td>
<td></td>
<td>- Pavement Materials</td>
<td></td>
</tr>
</tbody>
</table>
### PART-TIME ACADEMIC EXPERIENCE (list most recent first)

<table>
<thead>
<tr>
<th>Institution</th>
<th>Ranks</th>
<th>Field</th>
<th>Dates (Month &amp; Year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universidad Ricardo Palma</td>
<td>Visiting Professor</td>
<td>Civil Engineering</td>
<td>June 2019</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Pavement Design</td>
<td>June and Nov. 2018</td>
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<td>July and Nov. 2017</td>
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<td>June and Dec. 2016</td>
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<td>June and Dec. 2015</td>
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<td>August 2013</td>
</tr>
<tr>
<td>Universidad EAFIT</td>
<td>Visiting Professor</td>
<td>Civil Engineering</td>
<td>Oct. 2019</td>
</tr>
<tr>
<td>Medellin - Colombia</td>
<td></td>
<td>Master in Engineering</td>
<td>April 2019</td>
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<tr>
<td></td>
<td></td>
<td>- Pavement Analysis and Design</td>
<td>April and Oct. 2018</td>
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<td>April and Oct. 2017</td>
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<td>May 2012</td>
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<tr>
<td>Universidad del Norte, Barranquilla - Colombia</td>
<td>Visiting Professor</td>
<td>Civil Engineering</td>
<td>November 2017</td>
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<tr>
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<td>Master in Engineering</td>
<td>August 2019</td>
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<td>Pav. Analysis and Design</td>
<td>February 2019</td>
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<td>August 2018</td>
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<td>July 2010</td>
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<td></td>
<td></td>
<td></td>
<td>August 2009</td>
</tr>
<tr>
<td>Universidad Nacional de Ingeniería, Lima - Perú</td>
<td>Lecturer</td>
<td>Civil Engineering</td>
<td>January 2000 – December 2002</td>
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<tr>
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<td>Master Program</td>
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<td></td>
<td>- Advanced Pavement Analysis</td>
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<tr>
<td></td>
<td></td>
<td>- Pavement Design</td>
<td></td>
</tr>
<tr>
<td>Texas Transportation Institute (TTI) Texas A&amp;M.</td>
<td>Research Assistant</td>
<td>Civil Engineering</td>
<td>August 1997 – December 1999</td>
</tr>
<tr>
<td>College Station, Texas, U.S.</td>
<td></td>
<td>- Infrastructure</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Pavements and Materials</td>
<td></td>
</tr>
<tr>
<td>Peru-Japan Seismic Investigation and Mitigation</td>
<td>Research Engineer</td>
<td>Civil Engineering</td>
<td>January 1990 – December 1991</td>
</tr>
<tr>
<td>Center (CISMID), Lima, Perú</td>
<td></td>
<td>- Structural Analysis</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>- Seismic Analysis</td>
<td></td>
</tr>
<tr>
<td>Universidad Nacional de Ingeniería, Lima - Perú</td>
<td>Teaching Assistant</td>
<td>Civil Engineering</td>
<td>January 1990 – December 1991</td>
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<tr>
<td></td>
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<td>- Structural Analysis and</td>
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<td>Design</td>
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NON-ACADEMIC EXPERIENCE

<table>
<thead>
<tr>
<th>Place of Employment</th>
<th>Title</th>
<th>Dates</th>
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<tr>
<td>Inter-American Development Bank</td>
<td>External Consultant</td>
<td>May 2004 – June 2008</td>
</tr>
<tr>
<td></td>
<td>Department and Quality Assurance/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quality Control Division</td>
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</table>

EMPLOYMENT RECORD AT FIU
Rank: Associate Professor Dates: Effective on August 12, 2020

PUBLICATIONS IN DISCIPLINE
(List most recent first. List only items already in print or accepted for publication. For items accepted but not yet published, indicate “in press” and number of typewritten pages, single or double-spaced. If publication is co-authored, all authors must be listed as they appear in the publication—i.e., same order. If sole authored, author’s name must be given. Indicate by “NPR” any publications that were not peer reviewed.)

Books (give full bibliographical references)


**Doctoral Dissertation**


**Master Thesis**


**Regular Peer Reviewed Articles (give full bibliographical references)**


Guardrail System Preservation Policies into Asset Management Practices”. Journal of the
Transportation Research Board, 96th Transportation Research Board Meeting. Washington D.C., U.S.
February 2017.

EDULEARN16, Barcelona, Spain, July 2016.

and Rehabilitation Treatment Effectiveness of Asphalt”. 2016 Transportation Research Board


Populate Missing Performance Data in Pavement Management Systems”. American Society of Civil
DOI:10.1061/(ASCE)TE.1943-555X. 0000247, December 2015.

Division Methods”. American Society of Civil Engineering (ASCE), Journal of Infrastructure
Systems. DOI:10.1061/(ASCE)IS.1943-555X.0000217, April 2014.

Funding Allocation Models”. Journal of the Transportation Research Forum, Vol. 53, No. 1 (Spring

Performance Models of Continuously Reinforced Concrete Pavements”. American Society of Civil
Engineering (ASCE), Journal of Transportation Engineering. DOI:10.1061/(ASCE)TE.1943-
5436.0000579, December 2013.

International Road Management Systems”. Journal of Carreteras. Asociación Española de la


**Conference Proceedings**


Reports (give complete bibliographical references)


**Trade Journals**


**Education Workshops and Conferences**


9th International Technology, Education and Development Conference (INTED), Madrid, Spain, March 2 – March 4, 2015.


4th Annual Symposium on Engineering & Liberal Education and Integrate to Innovate Faculty Institute, June 3-4th, 2011, Union College, Schenectady, New York.


Chapters in Books (give complete bibliographical references)
N/A

Book Reviews (give complete bibliographical references)


OTHER PUBLICATIONS (List publications outside of discipline. Give complete bibliographical references.)


PRESENTED PAPERS, AND LECTURES (List title, date, and venue where presented)


6. “Sustainability and Concrete Pavements”. 10 Ibero-Latin American Congress of Concrete Pavements. Santiago de Chile, Chile, November 22, 2019.


59. Incorporating livability principles in the development of transportation Asset Management plans, World Conference on Pavement and Asset Management, WCPAM, Milan, Italy - June 15, 2017


77. “Soluciones y tratamientos bituminosos para vías de bajo volumen de tráfico”. Workshop. Instituto de Infraestructura y Concesiones de Cundinamarca, Bogota, Colombia, May 24, 2016.


134. “Concrete Pavements, Sustainable Design, Maintenance and Rehabilitation” (Keynote Speaker), XII International Congress on Highway Infrastructure, Lima, Perú, August 30-31, 2013


189. “Soils Stabilization”, Catholic University, Santiago de Chile, Chile, May 2009.


**CREATIVE WORK**
(List date and type of work and/or place of presentation. If the creative work has received recognition, such as design award, competition prize, exhibition or publication by others, or critical review, indicate the level of recognition as well as the peer-review context and process.)
New Programs and Courses Developed
“Engineering in Practice for a Sustainable Healthy Living Community: 21st Century Engineering Challenges”. College of Engineering. The program seeks to provide students the opportunity to interact with professional engineers extending their education beyond the classroom. The program merges education, research, and professional practice to propose solutions to engineering problems. Started August 2010 (engineeringinpractice.utep.edu).

The program received the NCEES Engineering Award for Connecting Professional Practice and Education award from National Council of Examiners for Engineering and Surveying in three consecutive years for the projects:
   “Multidisciplinary SMART Design of Fire Station 513”, June 2012.

WORKS IN PROGRESS
Papers submitted to journals for consideration (list Journal and date of submission)
Other completed papers


Research in Progress


Grant Proposals (list title of project, agency receiving proposal, and date of submission)

1. Improve Data Quality for Automated Pavement Distress Data Collection. Texas Department of Transportation (TxDOT), March 2019. $ 289,395.

2. Identify Risk Factors that Lead to Increase in Fatal Pedestrian Crashes and Develop Countermeasures to Reverse Trend. Texas Department of Transportation (TxDOT), May 2019. $ 258,073.

3. Developing Decision Tree Incorporating Surface Conditions, Texas Department of Transportation (TxDOT), January 2019. $ 258,073.


7. Calibration of Bridge Element Based Deterioration Models. Texas Department of Transportation, April 2018, $244,999.

8. Determine Proper Selection of Ride Quality Pay Adjustment Schedule and Re-evaluation of Current Bonus/Penalty Structure. Texas Department of Transportation, April 2018.


11. Implementation of a Sustainable Performance-Based Methodology to Address the Impact of Climate Changes on the “State of Good Repair” of Transportation Infrastructure. SPTC Research, Education and Outreach Support, University of Oklahoma and U.S. Department of Transport Network, August 2017, $ 45,000.


15. Vulnerable User Road Safety Enhancements for Transportation Asset Management, June 2017. Center for Transportation, Environment, and Community Health (CTECH), $56,308.


17. Development of a Sustainable Performance-Based Methodology for Strategic Metropolitan Planning Based on MAP-21, El Paso Metropolitan Planning Organization. February 2016, $144,000.


19. Innovative Tools and Techniques in Identifying Highway Safety Improvement Projects, Texas Department of Transportation (TxDOT) October 2015, $324,551 (with Aldouri and Smith at UTEP, and Kockelman at UT Austin).


21. Developing a Surface Drainage Rating for inclusion in TxDOT’s Asset Management System, Texas Department of Transportation (TxDOT, April 2015, $174,387 (with Tandon at UTEP).

22. Development of a Methodological Framework for Cross-Asset Resource Allocation to Support Infrastructure Management, Texas Department of Transportation (TxDOT April 2015, $349,497 (with Taboada, Espiritu, Fullerton at UTEP).


25. Cost-Effective Alternatives to Seal Coats, Texas Department of Transportation (TxDOT), August 2014, $448,765 – UTEP 134,983 (with Tandon at UTEP, and Yetkin and Bhasin at UT-Austin-CTR).


27. *Quantification of the Impact of a Road’s Condition on Emissions*, Texas Department of Transportation (TxDOT), July 2013, $288,879 - UTEP $ 168,879 (with Nazarian and Abdallah at UTEP, and Yu, Qiao, and Azimi at Texas Southern University).

28. *Consequences of Delayed Maintenance of Highway Assets*, National Cooperative Research Program (NCHRP), NCHRP Project 14-20A, June 2013, $ 450,000 – UTEP $ 249,500 (with Yan, Nazarian and Abdallah at UTEP; Jackson, and Yapp at Nichols Consulting Engineers, Chtd; and Roberts at Spy Pond Partners).


30. *Developing a Pavement-Maintenance Database System*, National Cooperative Research Program (NCHRP), NCHRP Project 14-31, December 2012, $ 250,000 – UTEP $ 130,000 (with Nazarian, and Abdallah at UTEP; Jackson, and Yapp at Nichols Consulting Engineers, Chtd; and Rafiq and Roberts at Deighton Associates).

31. *Cross-Asset Resource Allocation and the Impact on System Performance*, National Cooperative Research Program (NCHRP), NCHRP Project 08-91, October 2012, $ 500,000 – UTEP $ 260,000 (with Fullerton, Taboada, Espiritu, and Nazarian at UTEP; Jackson, Yapp, and Senn at Nichols Consulting Engineers, Chtd; and White, Katara, Muench, and Latham at Pavia Systems, Inc.).

32. *Calibration and Validation of Chasqui Profiler*, February 2012, $ 20,600 – UTEP $8,554 (with Nazarian at UTEP, and Williams at Fugro).

33. *Best Practices in GIS-Based Asset Management*, National Cooperative Research Program (NCHRP), NCHRP Project 08-87, November 2011, $ 500,000 – UTEP $ 293,853 (with Aldouri and Nazarian at UTEP, and Williams and others at Fugro).

34. USA/Peru Study broad Program: Global and Regional Sustainability Engineering. April 2012, $ 225,000 (with Ferregut as Principal Investigator, Taboada, Espiritu, Vargas, and Cheu).

35. *Validation of TxDOT Flexible Pavement Skid Prediction Model*, Texas Department of Transportation (TxDOT), March 2012, $340,506 – UTEP $ 189,911 (with Nazarian, Tandon, Garibay, and Rocha at UTEP, and Prozzi, Murphy, and Smit, UT-Austin-CTR).

37. **Evaluate the Improvement in Pavement Ride, Distress and Condition Based on Different Treatment Types**, Texas Department of Transportation (TxDOT), March 2011, $ 338,984 - UTEP $ 170,572 (with Nazarian and Abdallah at UTEP, and Wimsatt at the Texas Transportation Institute, Texas A&M).

38. **Quantitative Relationship Between Safety and Reduced Roadway Condition Maintenance**, Texas Department of Transportation (TxDOT), March 2011, $ 195,155 (with Hernandez, Nazarian, Aldouri).

39. Using “Fair Division” Methods for Allocating Transportation Funds, Texas Department of Transportation (TxDOT), March 2011, $ 187,185 (with Taboada, Espiritu, and Fullerton).

40. **Performance Life of Various HMA Mixes in Texas**, Texas Department of Transportation (TxDOT), March 2011, $ 306,000 (with Nazarian as Principal Investigator, Tandon, Abdallah, Celaya).

41. Evaluation of Pavement Rutting and Distress Measurements, Texas Department of Transportation (TxDOT), May 2010, $ 287,778 (with Nazarian).

42. **Management Science Applications for TxDOT – Scoping Study**, Texas Department of Transportation (TxDOT), March 2010, $ 199,267 - UTEP $ 22,292 (with Waller and others at the University of Texas in Austin, and Walewski at Texas A&M).


44. **Long-Range Strategic Issues Affecting Preservation, Maintenance, and Renewal of Highway Infrastructure**, National Highway Cooperative Highway Research Program (NCHRP), February 2010, $1,000,000 - UTEP $ 50,313 (with Nazarian at UTEP, Anderson and others at Texas A&M and University of Houston).

45. **Evaluation of Skid Measurements Used by TxDOT**, March 2010, Texas Department of Transportation (TxDOT), March 2010, $ 327,039 – UTEP 232,469 (with Nazarian at UTEP, and Dessouky and Weissmann at UTSA).

46. **StreetSaver Training and Guidance Services**, November 2009, Metropolitan Transportation Commission (MTC-California), November 2009, $ 97,320.22 (with Nichols Consulting Engineers, Chtd.).


48. Implementation of ROW Acquisition Decision-Support-Tools, Texas Department of Transportation (TxDOT), August 2009, $ 74,2092 – UTEP $ 22,198 (with Krugler, Feldman, and Butenko at Texas Transportation Institute and Texas A&M).
49. Development of a Performance Measurement Based Methodology to Objectively Compare Operational Improvements with Capacity Additions, Texas Department of Transportation (TxDOT), March 2009, $177,577.


51. Asset Management for Safety and Operations, Texas Department of Transportation (TxDOT), August 2008, $242,449 (with Texas Southern University).

Funded Research
(List all investigators, title of project, funding agency [if the funding is a subcontract, from what organization], project dates, and amount of funding [when there are co-PIs on an award, give the portion of the total award coming to the candidate]).


5. A Sustainable Performance-Based Methodology to Address the Impact of Climate Changes on the “State of Good Repair” of Transportation Infrastructure, November 1, 2016 – December 31, 2017. SPTC Research, Education and Outreach Support, University of Oklahoma and U.S. Department of Transport, $45,000.

6. Cost-Effective Alternatives to Seal Coats, Texas Department of Transportation (TxDOT), January 2015 – August 2017, $448,765 – UTEP 134,983 (with Tandon at UTEP, and Bhasin at UT-Austin-CTR).


9. Quantification of the Impact of a Road’s Condition on Emissions, Texas Department of Transportation (TxDOT), July 1,2014- June 30, 2016. $288,879 - UTEP $ 168,879 (with Nazarian and Abdallah at UTEP, and Yu, Qiao, and Azimi at Texas Southern University).


11. USA/Peru Study Abroad Program: Global and Regional Sustainability Engineering, September 2012 – July 2015. United States Department of State. $ 250,000 (with Ferregut as Principal Investigator, Cheu Espiritu, Taboada, and Vargas).


13. Collection of Materials and Performance Data for the Texas Flexible Pavements and Overlays, 2010 – August 2015. Texas Department of Transportation (TxDOT), $ 1’831,711 – UTEP $ 599,700 (with Nazarian as Principal Investigator at UTEP; Walubita and others at the Texas Transportation Institute).


17. Evaluate the Improvement in Pavement Ride, Distress, and Condition Based on Different Treatment Types, September 2011 – August 2013. Texas Department of Transportation (TxDOT). $ 338,984 - UTEP $ 170,572 (with Nazarian, and Abdallah at UTEP, Wimsatt and others at the Texas Transportation Institute).


19. El Paso Border Master Plan, April 2012 – April 2013. Texas Department of Transportation (TxDOT), $ 250,000 (with Hernandez as Principal Investigator).

21. Implementation of New Pavement Performance Prediction Models in PMIS, October 2011 - August 2012. Texas Department of Transportation (TxDOT), $9,100. (with Wimsatt and others at the Texas Transportation Institute).

22. Long-Range Strategic Issues Affecting Preservation, Maintenance, and Renewal of Highway Infrastructure, June 2010 – August 2012, National Highway Cooperative Highway Research Program (NCHRP), $1,000,000 - UTEP $ 50,313 (with Nazarian at UTEP, Anderson and others at Texas A&M and University of Houston).

23. Management Science Applications for TxDOT – Scoping Study, September 2010 – August 2011 Texas Department of Transportation (TxDOT), $ 199,267 – UTEP $ 22,292 (with Waller and others at the University of Texas in Austin, and Walewski at Texas A&M).

24. Evaluation and Development of Pavement Scores, Performance Models and Needs, September 2008 – August 2011, Texas Department of Transportation (TxDOT), $768,716 – UTEP 206,758 (with Nazarian and Abdallah; Wimsatt, Freeman, Scullion, and Gharaibeh at Texas Transportation Institute; and Papagiannakis and Weissmann at UTSA).


26. Implementation of ROW Acquisition Decision-Support-Tools, September 2009 – August 2010, Texas Department of Transportation (TxDOT), $ 74,209 – UTEP $ 22,198 (with Krugler, Feldman, and Butenko at Texas Transportation Institute and Texas A&M).


29. Integrating the Transportation System with a University Campus Transportation Master Plan, Texas Department of Transportation (TxDOT), May 2009 – August 2009, $ 60,886, (with Cheu as Principal Investigator, and Aldrete-Sanchez at Texas Transportation Institute).

30. Asset Management – Texas Style, September 2008 – August 2009, Texas Department of Transportation (TxDOT), $107,950 - UTEP $ 41,500 (with Krugler, Feldman, and Butenko at Texas Transportation Institute and Texas A&M).

32. Considerations for Rigid vs. Flexible Pavement Designs When Allowed as Alternate Bids, November 2007- December 2008, Texas Department of Transportation (TxDOT), $120,000 - UTEP $ 17,601 (with Wimsatt, Scullion, Freeman, and Krugler at Texas Transportation Institute).

33. Synthesis Study on Variable Asphalt Shot Rates for Seal Coats, Texas Department of Transportation (TxDOT), September 2007 – August 2008, $78,654 (with Krugler at Texas Transportation Institute).

34. ROW Real Property Asset Management Architecture, Texas Department of Transportation (TxDOT), September 2007 – August 2008, $ 282,175 (with Quiroga at Texas Transportation Institute).


36. A Data Base for Successful Pavement Sections in Texas – Including Both Experimental and Non-Experimental Pavements, Texas Department of Transportation (TxDOT), September 2006 – August 2007, $ 353,033 (with Krugler at Texas Transportation Institute).

37. Develop a Knowledge Management System for TxDOT Pavement-Related Corporate Knowledge, Texas Department of Transportation (TxDOT), September 2005 – August 2006, $ 228,146 (with Krugler at Texas Transportation Institute and Fults at Center of Transportation Research).

38. Estimating Revenues Using a Toll Viability Screening Tool, Texas Department of Transportation (TxDOT), September 2003 – August 2004 (with Stockton and Smith at Texas Transportation Institute and Texas A&M).

PROPOSALS SUBMITTED BUT NOT FUNDED
(List title of project, funding agency, project dates, and amount of requested funding)

1. Improve Data Quality for Automated Pavement Distress Data Collection. Texas Department of Transportation (TxDOT), March 2019. $ 289,395.

2. Identify Risk Factors that Lead to Increase in Fatal Pedestrian Crashes and Develop Countermeasures to Reverse Trend. Texas Department of Transportation (TxDOT), May 2019. $ 258,073.

3. Developing Decision Tree Incorporating Surface Conditions, Texas Department of Transportation (TxDOT), January 2019. $ 258,073.

4. Calibration of Bridge Element Based Deterioration Models. Texas Department of Transportation, April 2018, $244,999.

5. Determine Proper Selection of Ride Quality Pay Adjustment Schedule and Re-evaluation of Current Bonus/Penalty Structure. Texas Department of Transportation, April 2018,

6. Quantification of the Performance of Preventive Maintenance and Rehabilitation Strategies. Texas Department of Transportation, April 2018, $ 299,115

8. Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD), METROPIA, June 2017, $ 327,000.


10. Innovative Tools and Techniques in Identifying Highway Safety Improvement Projects, Texas Department of Transportation (TxDOT October 2015, $ 324,551 (with Aldouri and Smith at UTEP, and Kockelman at UT Austin).


12. Developing a Surface Drainage Rating for inclusion in TxDOT’s Asset Management System, Texas Department of Transportation (TxDOT, April 2015, $174,387 (with Tandon at UTEP).


15. Sustainable Perpetual Asphalt Pavements and Comparative Analysis of Lifecycle Cost to traditional 20-year Pavement Design, Texas Department of Transportation (TxDOT), August 2014, $406,732 – UTEP 182,715 (with Ashtiani at UTEP, and Bhasin and Yetkin at UT-Austin-CTR).


17. Developing a Pavement-Maintenance Database System, National Cooperative Research Program (NCHRP), NCHRP Project 14-31, December 2012, $ 250,000 – UTEP $ 130,000 (with Nazarian, and Abdallah at UTEP; Jackson, and Yapp at Nichols Consulting Engineers, Chtd; and Rafiq and Roberts at Deighton Associates).

18. Cross-Asset Resource Allocation and the Impact on System Performance, National Cooperative Research Program (NCHRP), NCHRP Project 08-91, October 2012, $ 500,000 – UTEP $ 260,000 (with Fullerton, Taboada, Espiritu, and Nazarian at UTEP; Jackson, Yapp, and Senn at Nichols Consulting Engineers, Chtd; and White, Katara, Muench, and Latham at Pavia Systems, Inc.).

19. Calibration and Validation of Chasqui Profiler, February 2012, $ 20,600 – UTEP $8,554 (with Nazarian at UTEP, and Williams at Fugro).


23. *Quantitative Relationship Between Safety and Reduced Roadway Condition Maintenance*, Texas Department of Transportation (TxDOT), March 2011, $ 195,155 (with Hernandez, Nazarian, Aldouri).

24. Evaluation of Pavement Rutting and Distress Measurements, Texas Department of Transportation (TxDOT), May 2010, $ 287,778 (with Nazarian).


27. Development of a Performance Measurement Based Methodology to Objectively Compare Operational Improvements with Capacity Additions, Texas Department of Transportation (TxDOT), March 2009, $ 177,577.


**PATENT DISCLOSURES, APPLICATIONS, AND AWARDS**

N/A

**PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS**

Chair of the Infrastructure and Systems Committee, Transportation and Development Institute, American Society of Civil Engineers (ASCE), August 2019 – Present.

Chair of the V International Conference on Infrastructure Transportation (ICTI), International Society for Maintenance and Rehabilitation of Transport Infrastructures (ISMARTI). August 2022.

EAFIT University, Best Professor of the Pavement Engineering and Highway Design Graduate Program, Colombia. December 2014.

American Society of Civil Engineers (ASCE), Journal of Infrastructure Systems. Outstanding Reviewer in 2013. April 2014.


National Council of Examiners for Engineering and Surveying, NCEES Engineering Award for Connecting Professional Practice and Education. Project “Multidisciplinary SMART Design of Fire Station 513”, June 2012.


International Road Federation (IRF) Fellowship, August 1997 (Selected as fellow in a worldwide competition. 13 fellows were selected).

OFFICES HELD IN PROFESSIONAL SOCIETIES

Chair of the Infrastructure and Systems Committee, Transportation and Development Institute, American Society of Civil Engineers (ASCE), August 2019 – Present.

Chair of the V International Conference on Infrastructure Transportation (ICTI), International Society for Maintenance and Rehabilitation of Transport Infrastructures (ISMARTI). August 2022.

Chair of the Research Subcommittee, Pavement Management Systems, Transportation Research Board (TRB).

Vice President of the North-American Region, International Society for Maintenance and Rehabilitation of Transport Infrastructures (ISMARTI). March 2016- Present.

Chair of the Committee on Implementation of Mechanistic-Empirical Pavement Design (CIDMEP).

Vice Chair of the Infrastructure and Systems Committee, Transportation and Development Institute, American Society of Civil Engineers (ASCE), January 2015 – September 2019.

Chair of the International Road Federation Road Asset Management-Pavement Preservation Task Force, IRF, August 2009 – December 2011.


Advisor, Chi Epsilon Advisor. UTEP Chapter.
Advisor, Texas Society of Professional Engineers (TSPE). UTEP Chapter.

Past-Vice-Chair, Education Committee, Texas Society of Professional Engineers (TSPE),
Advisor, Transportation Leadership Council (TLC). UTEP Chapter.

Other Membership
Texas Board of Professional Engineers, P.E. 101970

Peruvian Board of Engineers, P.E. 39748

Phi Kappa Phi Society

Transportation Research Board, Pavement Preservation Committee

Transportation Research Board, Pavement Management Systems
Inter-american Cement Federation

Peruvian Road Association

OTHER PROFESSIONAL ACTIVITIES AND PUBLIC SERVICE

Academic Service at the University of Texas at El Paso

1. Faculty Search Committee, IMSE Assistant Professor Position; Industrial, Manufacturing and Systems Engineering Department; September 2019 - February 2020.


2. Faculty Search Committee, Construction management or sustainable building materials Faculty Position, July 2013 - December 2013.

3. College of Engineering Infrastructure and Sustainability Team, January 2012 - Present.

4. Faculty Search Committee, Geotechnical and Structural Faculty Positions, January 2011 - December 2012.


8. Faculty Search Committee, Construction Management Faculty Position, March 2009.

**Doctoral Dissertations and Thesis**

**Ph.D. Dissertations (as Chair)**


**M.S. Thesis (as Chair)**

Ruiz, David. “Methodology to Identify Risk Factors that Lead to Increase in Fatal Pedestrian Crashes and Develop Countermeasures to Reverse Trend.” UTEP, May 2021 (expected)


Ortega, Oscar. “A Sustainable Performance-Based Methodology to Address the Impact of Climate Changes on the “State of Good Repair” of Transportation Infrastructure.” UTEP, May 2018.


Ph.D. Dissertations (as member)
Rodriguez, Danniel. “Performance Life of Various Hot Mix Asphalt Mixtures in Texas”. Chair Dr. Soheil Nazarian, UTEP, August 2015.


Vidaña Bencomo, Jose Osiris. “Methodology to Convert Transportation Planning Origin-Destination Matrix into a Microscopic Traffic Simulation Origin Destination Matrix”, Chair: Dr. Ruey (Kelvin) Cheu, UTEP, December 2011.


**M.S. Thesis (as member)**


Jan Kapusta. “Safety Measures for Trucks: A Comparison between EU and U.S.”, Chair Dr. Ruey (Kelvin) Cheu, UTEP, August 2013


Acevedo, Loreto. “Improved Performance of Soils Stabilized with FBC Ash”, Chair: Dr. Guillermo Thenoux, Catholic University, Santiago de Chile, Chile, May 2009.


Lei, Hao. “Allocate Emergency Response Vehicles to Cover Critical Infrastructures”, Chair: Dr. Ruey (Kelvin) Cheu UTEP, December 2008.
Non-Thesis Graduate Students at UTEP

Varela E. “Dynamic Adjustment of PCI Family Curves on Field Inspection History”, UTEP, December 2014.


Senior Undergraduate Projects Supervised at UTEP


TEACHING (The University of Texas at El Paso)

Graduate Courses
CE 5356 Sustainable Engineering Design (Fall 2018: 4.6666)
CE 5365 Decision Making in Infrastructure System Design and Evaluation (Fall 2017, Fall 2015, Spring 2013: 4.8)
CE 6301 Infrastructure Management (Spring 2018: 4.4285, Fall 2016, Fall 2014: 4.1, Fall 2012: 4.625, Fall 2011: 4.8181, Fall 2010: 4.5, Fall 2009, Fall 2008: 4.291)
CE 6195 Civil Engineering Seminar (Spring 2014: 5.000, Spring 2011: 4.7)
CE 6315 Infrastructure Planning (Spring 2010: 4.5714)
CE 5324 Construction Management (Spring 2008: 4.7000)

Undergraduate Courses
CE 1301 Civil Engineering Fundamentals (Fall 2019: 4.1323)
CE 3336 Civil Engineering Materials (Spring 2015: N/A, Spring 2010: 4.1000)
CE 3313 Engineering Measurements (Fall 2009)
CE 4188 Senior Design I (Fall 2013: 3.9090)
CE 4288 Senior Design II (Spring 2014: 4.4117, Fall 2013: 4.1304)
CE 4300 Sustainable Engineering (Summer 2019, Summer 2018, Summer 2017)
EDUCATION

**Doctor of Education.** Educational Policy, Research, and Administration, University of Massachusetts Amherst, Amherst, MA 01003. 2007.
Dissertation Title: *Placing Academic Activism: Constraints and Possibilities of Faculty Work*

**Master of Arts.** English Literature, Northeastern University, Boston, MA 02115. 1998.

**Bachelor of Arts.** English Literature, Saint Michael’s College, Colchester, VT 05439. 1996. *Cum Laude.* Minors: Gender Studies; Philosophy

HIGHLIGHTS

- 2020 AERA QR SIG Outstanding Book Award, AERA. 2020.
- Department Chair, Counseling, Rehabilitation, School Psychology, Florida International University, 2020-present.
- President's Faculty Research Award, The University of Alabama, 2017.
- Guest Editor, Special Issues, *Critical Questions in Education*, Fall 2016; Spring 2017.
- McCrory Faculty Excellence Award, Distinguished Teaching, College of Education, University of Alabama, 2016.
- Co-Recipient, Community Engagement Award, Center for Community Based Partnerships, University of Alabama, 2011.
- Co-Recipient, Excellence in Community Engagement Award for Scholarship, Center for Community Based Partnerships, University of Alabama. 2010.
CURRENT POSITION
Professor & Department Chair, Department of Counseling, Rehabilitation, & School Psychology, Florida International University.

AWARDS
- 2020 AERA QR SIG Outstanding Book Award, AERA. 2020.
- President's Faculty Research Award, The University of Alabama. 2017.
- McCrory Faculty Excellence Award, Distinguished Teaching, College of Education, University of Alabama. 2016.
- Community Engagement Award, Center for Community Based Partnership, University of Alabama. 2011 (with Arcadia Elementary School, Tuscaloosa, AL).
- Excellence in Community Engagement Award for Scholarship, Center for Community Based Partnerships, University of Alabama. 2010 (with Bakker, Gleason, Nichols, Busenlehner, Chopra, & Sundberg).

PUBLICATIONS

Books (Peer Reviewed)


Journal Articles (Peer Reviewed)


**Book Chapters**


*Book Sections*


Conference Proceedings (Peer Reviewed)


Encyclopedia Entry


Book Review


Journal Articles (invited)


**Newsletter Article**


**Manuscripts In Progress:**


**TECHNICAL REPORTS**


**PRESENTATIONS**

*Invited*


*International Peer Reviewed*


Kuntz, A.M. (May 2006). Faculty activism, faculty work: A case study, International Congress of Qualitative Inquiry. Urbana-Champagne, IL.


National Peer Reviewed


Regional Peer Reviewed


Kuntz, A.M. (February, 2016). *Do-We Have to Talk About De-wey?* Southeast Philosophy of Education Society. Asheville, NC.


**GRANT & CONTRACT ACTIVITY**

*Grant Advisory Board:*


*Grants & Contracts Funded:*

**Kuntz, A.M.** (2016). Wilcox County Coalition's CSAP's Strategic Prevention Program Evaluation ($10,000). *Cahaba Mental Health Center, AL.*


**Kuntz, A.M.** & Dantzler, J., Co-Investigators (2013-2016). Wilcox County Coalition's CSAP's Strategic Prevention Program Evaluation ($30,000). *Cahaba Mental Health Center, AL.*


Boykin, K., Principal Investigator; Evers, S., Gleason, J. & **Kuntz, A.M.**, Co-Investigators. (2008-2013). ALEPSCoR RII-3: ALEPSCoR Education Outreach Initiative. ($1,500,000.00). *National Science Foundation.*


*Grants Not Funded:*


Kuntz, A.M., Principal Investigator; Petrovic, J., Co-Investigator. The politics of survival in the social, historical, and philosophical foundations of education. Spencer Foundation. ($38,973).

Schumacker, R., Principal Investigator; Kuntz, A.M., Co-Investigator. Subcontract with Governor’s Office of Faith-Based and Community Initiatives. AL Governor’s Office. ($58,077).

TEACHING EXPERIENCE


Courses:
The Material Turn in Qualitative Inquiry
Aesthetics & Ethics: Qualitative Research Methods III.
Fieldwork in Educational Research.

Associate Professor, Department of Educational Studies, University of Alabama. 2012-2017.

Courses:
Graduate Level: Special Topics: Critical Geography; Special Topics: Embodiment & Emplacement; Reflexivity and Resistance in Research
(Re)Presentations: Qualitative Research Methods II; Case Study; Multicultural Education (Bogota, Columbia); Aesthetics & Ethics: Qualitative Research Methods III; Fieldwork in Educational Research; Readings in Foundations of Education.
Undergraduate Level: Honors Seminar: Inquiry & Reality TV.

Assistant Professor, Department of Educational Studies, University of Alabama. Fall 2007-2012.

Courses: Inquiry as Interpretation: Qualitative Research Methods I; Reflexivity and Resistance in Research (Re)Presentations: Qualitative Research Methods II; Aesthetics & Ethics: Qualitative Research Methods III; Case Study; Evaluation I: Theory & Practice; Researching Physical Place & Social Space. All graduate-level courses.

Co-Instructor, University of Massachusetts Amherst. Spring 2007.
Introduction to Program Evaluation. Graduate-level.
Co-Instructor, University of Massachusetts Amherst. Spring 2006.  
*Strategies for Institutional Change.* Graduate-level.

*Introduction to Inquiry.* Graduate-level.

Teaching Assistant, University of Massachusetts Amherst. Fall, 2002-Spring 2005.  
*Diversity on the College Campus.* Undergraduate-level.

Teaching Associate, University of Massachusetts Amherst. Fall 2004.  
*Leadership Careers in Student Affairs.* Undergraduate-level.

*Special Topics in Gender Studies.* Undergraduate-level.

Teaching Assistant, Saint Michael’s College. Spring 1999.  
*Gender Studies in Society.* Undergraduate-level.


Tutor, University Writing Center, Northeastern University. September 1996-June 1998.

**WORK EXPERIENCE**

Professor, Department of Counseling, Rehabilitation, & School Psychology, Florida International University. 2020-present.

Department Chair, Department of Counseling, Rehabilitation, & School Psychology, Florida International University. 2020-present.

Professor, Department of Educational Studies, University of Alabama. 2017-2020.

Department Head, Educational Studies, University of Alabama. Oversee all elements of department activities (including day-to-day operations and strategic plan implementation. Report to Dean of Education. Serve as member of College of Education Leadership Council. 2014-Present.

Associate Professor, Department of Educational Studies, University of Alabama. 2012-2017.

Program Coordinator, Research Methodology, University of Alabama. 2012-2016. Manage programmatic activities for department.

Assistant Professor, Department of Educational Studies, University of Alabama. Develop course curriculum for Research Methodology program. Teach graduate-level courses. Pursue active research agenda. Develop and implement grant proposals. Oversee graduate assistants and Qualitative Research Lab. 2007-2012.


External Consultant, National Collegiate Inventors & Innovators Alliance (NCIIA). Evaluate grant proposals, produce grant synopsis, collaborate on grant activities. Spring 2007-2008.

Evaluation Specialist, National Collegiate Inventors & Innovators Alliance (NCIIA). Devised interview protocol, conducted phone interviews, interpreted qualitative and quantitative data and wrote reports for internal evaluation of
national granting agency. Served as a consultant to affiliated colleges and universities: conducted campus focus groups, devised interview protocol, and wrote summary reports. Spring 2006-2007.

Research Associate, Student Assessment, Research and Evaluation Office (SAREO), University of Massachusetts Amherst. Conducted focus groups of first year students in alternative housing. Conducted individual interviews of Graduate School staff. Interpreted data and wrote final reports. Spring 2005-2006.


Research Assistant, University of Massachusetts Amherst. Assisted faculty member in Department of Educational Research, Policy, and Administration to collect and analyze educational data leading to journal articles. Fall 2002-2007.

Graduate Assistant, University of Massachusetts Amherst. Edited third edition of qualitative methodology book. Suggested and evaluated revisions. Wrote end of chapter responses in conjunction with authors and another graduate assistant.

Co-Coordinator, Undergraduate Leadership Conference, University of Massachusetts at Amherst. Worked with team of Campus Activities staff to construct and employ curriculum for weeklong undergraduate leadership conference. Taught courses in organizational culture, diversity, and conflict management. Trained and oversaw eight undergraduate conference assistants. Summer 2003.


Graduate Assistant, Northeastern University. Trained, supervised, and evaluated team of 33 orientation leaders. Emphasized skills of conflict management, communication, and group facilitation.

SERVICE

Disciplinary

Editorial Board, Philosophy & Theory in Higher Education, 2017-present.
Guest Editor, Special Issue, Qualitative Inquiry, Summer 2020.
Guest Editor, Special Issue, Critical Questions in Education, Spring 2017.
Guest Editor, Special Issue, Critical Questions in Education, Fall 2016.

**President**—*Southeast Philosophy of Education Society*. 2013-2014.

**Invited Reviewer**—Peer Reviewed Journals:
- Educational Researcher
- Qualitative Inquiry
- *International Journal of Qualitative Studies in Education*
- Qualitative Research
- Educational Studies
- Higher Education
- Journal of Higher Education
- Journal of Higher Education Outreach and Engagement
- Studies in Higher Education
- Journal of Engineering Education

**Invited Reviewer**—Peer Reviewed Books:
- Routledge Press
- Sage Publications

**Program Chair**—*Southeast Philosophy of Education Society*. 2011-2012.


**Invited Speaker**, *Qualitative Research Methodology*, Iowa State University. September, 2008.

**Invited Speaker**, *Qualitative Research Methodology*, University of Oklahoma. November, 2008.


---

**University of Alabama**

Member, Graduate Council. University of Alabama. 2018-Present.

Chair, Policy Committee, Graduate Council. University of Alabama. 2018-Present.


Department Chair, Educational Studies. University of Alabama. 2015-Present.

Member, Leadership Council, University of Alabama College of Education. 2015-Present.


Member, Graduate Council. University of Alabama. Fall 2018-present; Fall 2012-2014.

Member, Policy Committee, Graduate Council. University of Alabama. Fall 2018-present.

Selected Member, Leadership U, University of Alabama, 2015-2017.


Member, Faculty Senate. University of Alabama. Fall 2012-2015.


Chair, Faculty Search Committee. Department of Educational Studies in Psychology, Research Methodology, and Counseling. Summer 2011.

Co-Chair, Faculty Search Committee. Department of Educational Studies in Psychology, Research Methodology, and Counseling. Fall 2009-Spring 2010.


Member, Faculty Search Committee. Department of Educational Studies in Psychology, Research Methodology, and Counseling. Fall 2008-Spring 2009.


---

*Dissertation Committees--Chair (Completed)*

Kelly Berwanger (Chair)
Myrna Williamson (Chair)
Austin Pickup (Chair)
Lori Hill (Chair)
Leigh Booth (Chair)
Jeffrey Hayes (Chair)
Mo Xue (Chair)
Austin Lane (Co-Chair)
Tedi Gordon (Co-Chair)
Whitney Burton (Co-Chair)
Julie Jones (Chair)
Donna Guerra (Chair)
Marsha Simon (Chair)
Michelle Wooten (Chair)

Dissertation Committees—Member (Completed)

Emeka Nzeocha
Karen Nabors
Lynn Allyson Kelley
Carolyn Starkey
Amanda White
Johanna Massey
Dohyoung Ryang
Vernita Moore
Stephanie Baller
Inez Ragland
Tarsha Bluett
Joan Mitchell
Theresa Jones
Jeena Williams
Susan Welch
Ashley Davis
Christina VanZandt
Julie Hold
Andrea Minear
Reitha Cabaniss
Kristy Black
Margaret Jensen
Robin Jones
Haley Strickland
Elizabeth Wade
Inez Ragland
Juan Walker
John Myrick
Richard Templeton
Sara Hartley
Karen Watts
Rebecca Odom-Bartel
Andrea Word
Alexander Parks
Susan Zimlich
John Gilchrist
Kary Roberts
Caroline Parsons
Amanda Smith
Lou Ginochio
Alan Brown
Tricia Patterson
Lisa Matherson
Jacqueline Smith
Chris Hutt
Margaret Andrew
Cynthia Green
Caroline Parsons
Chris Franklin
John Gilchrist
Sarah Hartman
Paul Landry
Stephanie Blackmon
Michelle Walton
Moniaree Jones
Nicole Camp
Robert Hayes
Anna-Margaret Yarborough
Tasha Parrish
Paul Atkinson
Josie Prado
Khattiyanant Nonthaisong
Dissertation Committees Member (in progress)
Effie Fields
Emily Sims
Amy Murphy
Katrina Swain
LàTonya Santo
Jacqueline Smith

Thesis Committees
Austin McDonald (Communications Dept. – completed)
Jessy Ohl (Communications Dept. – completed)
Brian Oliu (English Dept. – completed)

University of Massachusetts Amherst (2002-2007)
Graduate Student Representative, Educational Policy, Research, and Administration, September, 2002-January, 2004.
Member, Faculty Search Committee, Educational Policy, Research, and Administration, Spring, 2003.
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ACADEMIC AFFAIRS REGULAR REPORTS

I. Academic and Career Success
II. Engagement
III. Enrollment Management and Services
IV. Information Technology
V. Research and Economic Development / University Graduate School
VI. Academic and Student Affairs
I. ACADEMIC AND CAREER SUCCESS

1. The Formation of Office of Student Success Operations and Strategy (Student SOS)

This semester, the Division of Academic and Career Success (ACS) created the Office of Student Success Operations and Strategy, also known as The Student SOS. The Student SOS works to improve student success outcomes at FIU by providing actionable data, conducting targeted outreach, and facilitating cross-college collaboration. The Student SOS is made up of two teams: the Strategic Initiatives and Data Coaching team (SIDC) and the Retention Outreach and Advising Resources team (ROAR.) The SIDC facilitates strategic, data-driven initiatives designed to increase retention and graduation by providing actionable data to partners within ACS and across the University. They identify and remove institutional barriers to undergraduate student retention, progression, and graduation such as unnecessary use of registration holds, course availability problems, and curriculum designs which impede timely graduation. ROAR works directly with students in financial and/or academic distress to remove barriers to success and identify pathways that will facilitate progression and timely graduation. They also coordinate university-wide advising initiatives and provide training and professional development for the advising community.

Starting in July, the team contacted 2018 and 2019 FTIC students who were not enrolled for Fall 2020. They worked with students on issues related to change of major, past due balance, and the impacts of COVID-19. They collaborated with partners throughout the University to assist the students. These efforts contributed to nearly a full percentage point increase in second-to-third year retention and over a 2% increase in first-to-second year retention. In September, the team contacted 468 students at-risk of being dropped from their Fall classes for non-payment. They worked with the students and University partners to award grants, resolve financial aid issues, and address other barriers. As a result of their efforts, 98% of those students successfully remained enrolled in their Fall classes. Additionally, they worked with various FTIC populations with outstanding balances, as well as those who lost or were at-risk of losing their financial aid. Efforts included assistance with the appeal process, requirements for maintaining eligibility, and resolution of balances.

2. Analysis of Fall 2020 Virtual Career Fair

Career and Talent Development is a full-service career center with a centrally coordinated and locally deployed model. Like most other units at FIU, as of March 2020, Career and Talent Development (CTD) transitioned to a completely remote environment. All career related services and programs have been offered virtually including our semi-annual Career Fairs.

During the two-day, virtual Career Fair in September, employers had the option of choosing “one-on-one” sessions with students or hosting a “room” where they could interact with several students at a time. Over 114 employers and over 2,500 students and alumni were in attendance. Both numbers are significantly higher than our typical Spring “in person” recruitment events. As colleges and universities nationwide struggle to connect employers and students, FIU has been able to attract and even grow the number of employers recruiting our graduates. 4,629 resumes were submitted, forty-eight (48) group sessions were held, and 2,213 individual meetings took place. This virtual platform of the event gave us valuable data we are not able to gather in a face to face environment. The employers with the highest number of “booth” visits for day 1 (Technical Career Fair) were GE Healthcare and Appliances, Oracle (US), Facebook, Ultimate Software and the Chevron Group. During day two (ALL Majors Fair) the top five visited booths were Wells Fargo, Oracle, Bloomberg, UBS and NextEra Energy Inc. (FPL).
II. ENGAGEMENT REPORT

1. Community Outreach and Events: FIU Cafecito Chats & NASEM Town Hall

The Office of Engagement began multiple series of online community engagement activities immediately following community quarantine due to the COVID-19 pandemic.

FIU Cafecito Chats are engagement talk shows featuring local and national community leaders, FIU faculty, staff and students and other local celebrity guests. To date, the show has aired 110 episodes and reached over 50,000 people. For Hispanic Heritage Month, featured speakers included authors Priscilla Oliveras, Anthony De Palma, and poet laureate Richard Blanco.

On August 5th, 2020 FIU held a virtual Town Hall in partnership with the National Academies of Sciences, Engineering, and Medicine. The Town Hall focused on how Florida International University, as a Hispanic Serving Institution, is merging STEM education research and practice to instantiate the community change and institutional transformations necessary to establish equity for underrepresented students in STEM. The aim of the Town Hall was to create an evolving conversation among MSIs regarding best, STEM education research-based practices for creating, implementing, and sustaining equity driven culture and pathways for STEM collegians within our colleges and universities. Ten FIU Faculty members and three students presented their research and programs during the Town Hall. A total of 594 individuals from colleges and universities, and national organizations across the country registered for the event. The live event received 465 live viewers and the virtual recording received 672 plays for a total of 650 hours of video viewing time.

2. Community Coalitions: Life Sciences South Florida (LSSF) COVID-19 Research Symposium

The virtual LSSF COVID-19 Research Symposium showcased the scientific work of South Florida’s Science, Technology, Engineering and Math (STEM) students through virtual oral presentations. This virtual Symposium focused on COVID-19 related research projects that students are undertaking within four categories: COVID-19 science investigations, COVID-19 education, COVID-19 technology, and COVID-19 impact on the community.

The event was held on September 19th, 2020, led by FIU Engagement, and hosted undergraduate scholars presenting their work from across 6 colleges and universities: Barry University, Florida Atlantic University, Florida International University, Miami Dade College, Nova Southeastern University, and St. Thomas University. A total of 135 guests attended the live virtual opening remarks. After the welcome session, there were six concurrent presentation sessions in which 4-5 student research groups presented their work to an audience ranging from 30-58 guests. Moderators were faculty members in STEM fields from across our South Florida colleges and universities. The event was held partially via the ForagerOne Symposium platform, which facilitated a-synchronous interactions between student presenters, moderators, and registered guests via prerecorded 10-minute research presentations that all guests could view and comment on via blog feature.

3. New Initiatives and Collaboratives

FIU Engagement has engaged in building a large-scale and long-term strategic partnership with the City of Boynton Beach. The partnership is meant to serve as a pilot in a new type of municipal partnership focused on equity. In Phase 1, the FIU Metropolitan Center and SIPA Department of
Public Policy and Administration will begin assessments of how government systems are impacting equity in the community and how equitable internal practices and policies are. In Phase 2, the City will be able to engage in training and development activities for all city employees based on the outcomes of the assessments. In Phase 3, FIU will advise the City in implementation of policies meant to build equity. Longer term, a steering committee will be built made up of relevant working groups with FIU scholars, City staff, and community members.

FIU Engagement is working with the recently formed South Florida Black Prosperity Alliance (SFBPA) in an effort to support the capacity building needs of the initiative. This is a tri-county economic and racial justice effort with members from Miami-Dade, Broward, and Palm Beach. FIU and SFBPA are currently finalizing a Memorandum of Understanding which will be signed in Fall 2020.

### III. ENROLLMENT MANAGEMENT AND SERVICES REPORT

#### 1. University Enrollment

<table>
<thead>
<tr>
<th>Summer 2020</th>
<th>Early Fall/Summer Point in Time Comparisons by Count Type and Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count Type</td>
<td>Summer 2019</td>
</tr>
<tr>
<td>Headcount</td>
<td>40,202</td>
</tr>
<tr>
<td>Fundable FTE's</td>
<td>8,634</td>
</tr>
<tr>
<td>Student Credit Hours</td>
<td>287,807</td>
</tr>
</tbody>
</table>

As of October 8, 2020, we enrolled 42,479 students in courses for the summer 2020 term. This represents a 6% increase as compared to summer 2019 enrollment of 40,202.

Fundable FTE’s have increased by 12% or by 997, from 8,634 in summer 2019 to 9,631 in summer 2020. Student credit hour production increased by 26,199 or 9%, from 287,807 in summer 2019 to 314,006 in summer 2020.

<table>
<thead>
<tr>
<th>Fall 2020</th>
<th>Fall Point in Time Comparisons by Count Type and Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count Type</td>
<td>Fall 2019</td>
</tr>
<tr>
<td>Headcount</td>
<td>58,784</td>
</tr>
<tr>
<td>Fundable FTE's</td>
<td>18,124</td>
</tr>
<tr>
<td>Student Credit Hours</td>
<td>594,173</td>
</tr>
</tbody>
</table>

As of October 8, 2020, 58,824 students enrolled in Fall 2020 courses. This remained flat as compared to Fall 2019 enrollment of 58,784. Fundable FTE’s also remained flat from 18,124 in 2019 to 18,095 in 2020. Student credit hour production decreased by 2,922 or 0.49%, from 594,173 in Fall 2019 to 591,251 in Fall 2020.
2. University Admissions

University Admissions transitioned to remote recruitment. Through collaboration and partnership with FIU Online and Academic & Student Affairs, University Admissions created a comprehensive virtual campus visit program which includes information sessions for prospective FTIC, transfer and graduate students; academic interest sessions; and student panels. There are also two virtual tours, one for each campus.

University Admissions is also participating in virtual school visits and college fairs. Prospective students, parents and influencers can have a one-on-one meeting with an admissions professional at college fairs hosted by the National Association for College Admission Counseling; or can join a webcast being hosted by the State University System.

University Admissions contracted with Carnegie Dartlet to begin its 2020-21 digital marketing campaign in the US. This campaign will use leading-edge strategies to maximize social media advertising, search engine optimization and online display marketing to create brand awareness and exposure keeping FIU top-of-mind. The goal is to generate qualified undergraduate and graduate leads and applications for specific programs, in targeted geographic areas. The first campaign will be to generate FTIC applications in key geographic areas outside of Florida.

3. Financial Aid

Disbursement

The Fall 2020 semester the Financial Aid Office has disbursed $186 million to 33,345 students while working remotely.

As of October 9, 2020, the final 2019-2020 aid disbursed totaled $538.6 million to 44,764 students a 5% increase compared to 2018-2019 $512 million to 43,616.

Cohort Default Rate

FIU’s 3-Year Cohort Default rate showed an increase for the 2017 cohort. This is an expected increase. The 2016 rate reflects the borrower relief our region received from the impacts of Hurricanes Irma and Maria. The 2017 is lower than the 2015, continuing the decline for “normal” cohort years. The following table provides a comparison to all 4-year public institutions and the national rates for all institutions.

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<tbody>
<tr>
<td>FIU</td>
<td>10.5%</td>
<td>8.9%</td>
<td>6.8%</td>
<td>5.4%</td>
<td>5.8%</td>
<td>5.3%</td>
<td>3.7%</td>
<td>5.2%</td>
</tr>
<tr>
<td>4-Year Public</td>
<td>9.3%</td>
<td>8.9%</td>
<td>7.6%</td>
<td>7.3%</td>
<td>7.5%</td>
<td>7.1%</td>
<td>6.8%</td>
<td>7.1%</td>
</tr>
<tr>
<td>National All</td>
<td>14.7%</td>
<td>13.7%</td>
<td>11.8%</td>
<td>11.3%</td>
<td>11.5%</td>
<td>10.8%</td>
<td>10.1%</td>
<td>9.7%</td>
</tr>
</tbody>
</table>

4. Office of Scholarships

The Office of Scholarships continues to lead the student emergency aid process in response to COVID-19. Since April 2020, we have received and processed over 17,000 applications for emergency assistance. We successfully distributed our student allocation of the CARES Act and
have been able to make 2,232 additional awards using foundation and institutional dollars and leveraging available financial aid. Since the shutdown we have given over 11,778 awards totaling $22,444,853.46 in emergency assistance to students.

<table>
<thead>
<tr>
<th>Total Awards Breakdown</th>
<th>Awards Made</th>
<th>Sum of Total Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARES</td>
<td>9,549</td>
<td>$19,149,680.00</td>
</tr>
<tr>
<td>University Grant</td>
<td>346</td>
<td>$537,945.68</td>
</tr>
<tr>
<td>FSEOG</td>
<td>591</td>
<td>$1,264,280.43</td>
</tr>
<tr>
<td>FIU Foundation Funds</td>
<td>1,205</td>
<td>$1,377,983.27</td>
</tr>
<tr>
<td>Institutional Funds</td>
<td>87</td>
<td>$114,964.08</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>11,778</strong></td>
<td><strong>$22,444,853.46</strong></td>
</tr>
</tbody>
</table>

There is still a great amount of need in our student body. We are working with FIU Foundation and university leadership to find funding for students who have requested emergency assistance, but we have been unable to fund (see details below). Current needs exceed 6 million dollars.

<table>
<thead>
<tr>
<th>Category</th>
<th>Count of Students Requesting support in this category</th>
<th>Amount Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food</td>
<td>2986</td>
<td>$1,084,591.31</td>
</tr>
<tr>
<td>Housing</td>
<td>2651</td>
<td>$2,660,806.07</td>
</tr>
<tr>
<td>Car</td>
<td>2459</td>
<td>$856,539.49</td>
</tr>
<tr>
<td>Living Expenses</td>
<td>2959</td>
<td>$1,796,389.43</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>n/a</strong></td>
<td><strong>$6,398,326.30</strong></td>
</tr>
</tbody>
</table>

5. University Registrar

**Miami Dade College-FIU Summer Transfer project**

Due to COVID-19 Miami Dade College, our largest feeder institution for transfer students, delayed their summer term start dates by 3 to 4 weeks. The FIU Fall term began on Monday, August 24th and MDC’s Summer term ended on August 21st. This weekend turnaround between MDC’s Summer term ending and the beginning of FIU’s Fall term could have severely impacted FIU transfer enrollment related to final transcripts and grades available prior to beginning at FIU. The Registrar’s Office worked proactively with MDC to secure the final student transcripts. Together with IT, Admissions, Transfer and Transition Services, and academic advisors throughout the institution at FIU, we created a holistic, ad-hoc process that seamlessly allowed for the transition of batch transcripts between FIU and MDC and provided the over 2,500 students a welcoming experience to FIU.

**Graduation process – continued enhancements**

By the end of the Summer 2020 semester, the enhanced graduation process continued successfully in PantherSoft. The only two remaining colleges, College of Engineering and Computing and College of Communication, Architecture and The Arts (CARTA), will be added at the end of Fall 2020. Below are the latest statistics of the auto/batch graduation process for undergraduate students since the project began in Fall of 2019. Most of the batch graduation process now occurs within 5 days after grades are posted at the end of the term. This has significantly improved customer service for students, who now can order transcripts with their
degree posted within a week. This process was previously manual and took about 4 to 5 weeks to complete. This method also graduates students when all requirements are met, therefore reducing excess credits and improving graduation rates.

As an example, by using this process, in Spring of 2020, we identified students who were eligible but not applied for graduation and facilitated the application process automatically without advisor or student intervention. This led to 259 students being successfully applied and graduated through this process. Of the 259 applications, 35 were for students in the 2016 FTIC cohort. This contributed to nearly a full percentage point increase in the University’s 2016 FTIC graduation rate.

As can be noted from below, by the Summer term 82% of all undergraduate degrees were successfully awarded/posted using the batch processing method. By the end of the Fall term, it is expected that 95%+ of all undergraduate degrees will be posted automatically. Next steps include automating the process for Graduate I degrees (Masters) and Certificates.

<table>
<thead>
<tr>
<th>Term</th>
<th>Count of Auto Post</th>
<th>Count of Manual Post</th>
<th>% Auto Post</th>
<th>% Manual Post</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2019 (1198)</td>
<td>1,617</td>
<td>2,946</td>
<td>35%</td>
<td>65%</td>
</tr>
<tr>
<td>Spring 2020 (1201)</td>
<td>3,632</td>
<td>1,321</td>
<td>73%</td>
<td>27%</td>
</tr>
<tr>
<td>Summer 2020 (1205)</td>
<td>3,128</td>
<td>697</td>
<td>82%</td>
<td>18%</td>
</tr>
<tr>
<td>Grand Total</td>
<td>8,377</td>
<td>4,964</td>
<td>63%</td>
<td>37%</td>
</tr>
</tbody>
</table>

IV. INFORMATION TECHNOLOGY REPORT

1. Division of IT’s CIARA awarded $10.3M

The Division of IT’s Center for Internet Augmented Research and Assessment (CIARA) has been awarded two new five-year awards totaling $10.3M; $6.5M for the AtlanticWave-SDX: A Distributed Intercontinental Experimental Software Defined Exchange and a new five-year award of $3.8M from the U.S. National Science Foundation (NSF) for the Americas Lightpaths Express and Protect (AmLight-ExP). The AtlanticWave-SDX has been awarded to CIARA for a second consecutive time and aims to make network paths easy for domain scientist to use. The award will introduce new capabilities, enabling Open Exchange Points (OXP) to react to unplanned network events by adding intelligent closed-loop control of network services powered by in-band network telemetry. An OXP serves as meet points for connecting and facilitating the exchange of data between Research and Education (R&E) networks. They are critical cyberinfrastructure in the transit of data over long geographical distances, switching data flows from one R&E network to the next, to its destination.

The AmLight Express and Protect (AmLight-ExP) project at FIU has helped researchers over the years transport their data through strong multiple 100 Gigabit per second (Gbps) dedicated highspeed network between three continents: North America, South America, and Africa. Creating a strong dedicated network allows for the data to be accessed quicker by scientists, educators, and students. The aggregate bandwidth capacity is planned to increase to 800Gbps from now until 2026 with new network connections envisioned from Brazil to Virginia, and Virginia to Portugal, adding resiliency and capacity between the U.S., South America, and Europe. By 2026, the AmLight project goal aims to achieve 4.4Tbps of aggregate bandwidth capacity.

2. Panthers Protecting Panthers (P3) Invite a Visitor

Over the course of the Summer, the Division of IT finalized the Panthers Protecting Panthers app (FIUP3). The FIU P3 app is a key part of our Panthers Protecting Panthers initiative for our FIU
community. The app follows the Centers for Disease Control and Prevention guidelines. It contains a safety screening questionnaire -- along with additional FIU and community resources -- that screens for COVID-19 symptoms. The app will not determine whether a user has contracted COVID-19, however, depending on the answers submitted, it will let the user know if they can come on campus or if they should stay at home.

Prior to coming on campus, all students, faculty and staff are required to complete the safety screening questionnaire within the FIU P3 app. Most recently, the division made enhancements to the app which gives faculty and staff the ability to “Invite a Visitor” onto any FIU campuses or locations. Once invited, the visitor will receive an email with an invitation and instructions on how to complete the questionnaire online.

3. Technology Fee for the 2020/2021 Academic Year

The Technology Fee Council reviewed one-hundred and twenty-nine proposals (129) from academic and administrative units. The final recommendations were submitted to the Vice President and CIO Robert Grillo and Executive Vice President and Provost Dr. Kenneth Furton for approval. Based on recommendations made by the Technology Fee Council, a total of forty-three (43) proposals were approved. Approved proposals must align with the Next Horizon 2025 strategic plan and should support any of the following: 1) emerging technologies; 2) create innovative concepts for teaching; 3) achieve exceptional student-centered learning; and 4) accelerate academic and career-ready success. Approved proposals include funding for a new large capacity, active learning classroom at BBC to help improve student success and achieve learning outcomes. Also included is the continued expansion and improvements of the University’s teaching and learning technologies across all our campuses.

V. RESEARCH AND ECONOMIC DEVELOPMENT / UNIVERSITY GRADUATE SCHOOL

1. External Grant Awards’ Performance

Last fiscal year (2019-2020) concluded with a 25% increase in research awards, a 34% increase in research proposal amounts of requested funding, and a 9% increase in number of proposals. Moreover, our overall success rate with grant proposals has increased by 14% over the past two years (from 43% to 49%). During the first quarter of FY 2020-2021 our progress continues; awards received were 5% higher than those received during the same period last fiscal year ($60.2M vs. $57.1M). External awards received by Centers and Institutes increased by 28%, from $25.4M to $32.5M, during the first quarter. Most notable during the first quarter are the STEM Transformation Institute that received $1.3M, the Community Based Research Institute received $1.1M and ARC received $1M. The distribution of awards received by funding source remained the same: 86% from federal sources, 5% from private/other, and 9% from state and local governments. The number of proposals submitted between July and September increased by 13% when compared with the same period last year.

2. Innovation, Partnerships and Economic Development

StartUP FIU is working with 18 faculty and 6 graduate students to commercialize their research. During the first quarter of FY 2020-2021, three teams were accepted to the national NSF I-Corps program ($50,000 grant/each) and one team started a virtual regional I-Corps five-week program. StartUP FIU staff developed and presented a virtual workshop on commercializing research for 55 faculty—"Research Innovation: A Guide to Knowing if your Idea Will Sell." Additionally, StartUP FIU staff developed and presented a virtual 4-workshop talk series on commercializing research for the
FIU Graduate School and 92 PhD students attended. As part of the student entrepreneurship programs, four different virtual boot camps attracted the participation of 147 applicants, of which 54 graduate/undergraduate students were accepted. The Office of Technology Management and Commercialization received 19 IP disclosures, filed 9 patent applications, received 8 patents and is on target to finish the calendar year with 60 patents as per goal. The staff assisted in the review and negotiations of numerous grant agreements for ORED during the quarter, especially those with third party corporate sponsors, and provided IP counseling for faculty who were working on grants. During the first quarter of FY 20-21, we participated with GaTech (along with Vanderbilt and a few other universities in the South) in a 5-year/$15M NSF I-Corps Hub grant proposal submission. If awarded, the grant will allow FIU to become part of the NSF’s national innovation ecosystem.

3. University Graduate School (UGS)
The final enrollment numbers for Fall 2020 semester were 381 doctoral students (1% decrease compared to last year; mostly impacted by international students) and 2,787 master’s students (12% increase compared to last year). Despite decreases in international enrollment, domestic enrollment increased in doctoral (9%) and master’s (22%) programs. The highest doctoral enrollment was in the College of Arts, Sciences and Education (19%) and the highest enrollment in master’s was in the Stempel College of Public Health and Social Work (35%). The Fall orientation for graduate students was conducted remotely, with a record of 582 students attending who had the opportunity hear from the UGS leadership and ask questions. Various units and centers that provide services to graduate students also presented. Additionally, 340 students participated in the online version of orientation, which was redesigned in Canvas with the assistance of FIU Online. Led by Dr. Alla Mirzoyan, UGS launched its new Office of Training and Fellowships, which provides support to graduate students applying for external fellowships and faculty members applying for graduate student training grants. We held workshops to prepare students to apply for the National Science Foundation Graduate Research Fellowship and the Ford Foundation Fellowship that were attended by 70 graduate students. In partnership with the Center for Excellence in Writing, we initiated a novel writing mentorship program where graduate students meet on a weekly basis with a writing coach to work on their proposals, thesis, dissertations and manuscripts. We are piloting the program with 24 graduate students this Fall and are planning to extend it in the following terms. As part of our Professional Program for Graduate Program Directors, we offered two workshops in September in collaboration with the Offices of Student Conduct and Conflict Resolution and IDEA to present and discuss new processes related to student conduct and Title VII/Title IX. Over 70 associate deans, graduate program directors and graduate program assistants participated.

VI. ACADEMIC & STUDENT AFFAIRS REPORT

1. Student Health & Wellness National Institute of Health (NIH) Supplemental Grant
Student Health & Wellness was approved for a supplemental grant for FY21 by the National Institute of Health (NIH) that is tied to FIU’s MARC U*STAR program, a NIH-funded training program for undergraduate students interested in biomedical research. These students are all highly motivated, ambitious, young researchers that work in various faculty labs across FIU. The program is tailored to provide fellows with specialized educational and professional development opportunities. Due to the nature of the program, these students may experience added stressors, in addition to those normally seen in the college population. This year, MARC U*STAR will partner with the Student Health and Wellness (SHW)’s Healthy Living Program (HLP), to teach students
about life skills outside of academia. HLP will focus on educating the fellows on the 9 dimensions of wellness and how to build their personal toolkit to achieve balance and personal well-being.

2. FIU recognized for supporting students in the military

Florida International University has been recognized for its efforts to support military-affiliated students and those who are veterans. It was recently recognized as a [2020 Top School for Veterans] by U.S. Veterans Magazine, which came on the heels of ranking as a [2020-2021 Military College of Distinction] last month. U.S. Veterans Magazine works to inform veterans and their families of opportunities and information that can help ease the transition from military to civilian life. The FIU Office of Veteran & Military Affairs (VMA) in the Division of Academic and Student Affairs offers services to veterans and military-affiliated students that includes support and guidance navigating through Veteran Affairs (VA) benefits, career support, connecting students with disability services and counseling resources, and scholarships for veterans. There are over 1,600 veteran and military-affiliated (active duty, reservists, dependents, and national guardsmen) students at FIU, and 125 faculty and staff veterans employed at the university. FIU is dedicated on developing a “holistic approach” to supporting veterans.

3. FIU awarded $1.3 million to help underrepresented students succeed

Florida International University’s Student Support Services (SSS) program in the Division of Academic and Student Affairs received a $1.3 million U.S. Department of Education grant over the next five years to ensure more students from underrepresented backgrounds excel and graduate from college. The SSS program helps first generation, low-income, and students with disabilities remove obstacles preventing them from thriving academically. The grant will support an array of services including tutoring, financial aid advice, career and college mentoring, and other forms of assistance. Such services enhance academic success and make it more likely that students will graduate and/or pursue graduate school with the lowest possible debt. At FIU, more than half of the undergraduate student population is eligible to receive SSS services. SSS is one of eight federal TRIO programs – named after the original three programs created in 1965 - authorized by the Higher Education Act to help students succeed in college. Since 1997, approximately 2,500 students have enrolled in FIU’s SSS program and have graduated with their bachelor’s degrees.

4. Who I am Forum

In commemoration and celebration of National Disability Employment Awareness Month, the “Who I Am” Forum, was hosted on Thursday, October 22 from 4pm – 5pm. The forum was developed to promote the recruitment, retention and advancement of people with disabilities by encouraging employers and others to recognize the skills and value they bring to the workplace.

DRC’s annual diversity awareness photo also took place during this event and captured a virtual photo of participants in solidarity with the FIU disability community. This event was sponsored by the Disability Resource Center, Multicultural Programs & Services, and Office of Veteran & Military Affairs.

5. Disability Resource Center Scholarships

The DRC has continued in partnership with Dr. Fareed Haj’s family to steward the endowment scholarship which grants awards to students who are blind/low vision and have exhibited academic
success and civic engagement. This year, $6,000 have been awarded for Fall and Spring to two meritorious students who are pursuing degrees in Law and Business Management, respectively.

In August 2020, the DRC awarded $126,225 in Johnson Scholarship Foundation awards to 80 undergraduate students with disabilities who are seeking their first baccalaureate degrees. These students have significant unmet financial need and are pursuing majors such as Information Technology, Health Services Administration, and Biology, and have disabilities including psychological/behavioral disabilities, Autism Spectrum Disorder, and specific learning disabilities.

6. Wellness and Recreation Centers

The FIU Wellness and Recreation Center (WRC) has pivoted its programming and resources by creating the Virtual WRC, allowing students to transition to reaching their fitness and wellness goals online seamlessly. Our programs are available On-Demand, live via Zoom, and via a dedicated YouTube Channel, which houses previously recorded programming. In addition to these classes, students have access to programs such as sessions with athletic trainers and sport program administrators, Esports events and leagues, running challenges, and so much more.

To date during the Fall semester, our innovative offerings include 248 fitness and wellness classes, with 3,130 participations. The Virtual WRC has addressed our students' varying needs with a plethora of easily accessible online content.

7. Student Life and Development

Student Life and Development has had a very busy Fall 2020! We just finished an amazing Homecoming with most of the events being virtual including our first ever concert done fully virtual with headlining artist Diplo. We had 1900 students attend the online concert!

The five departments in Student Life and Development have held 45 virtual events with great success such as 317 attended the virtual club fair and 246 participated in sorority virtual recruitment!

8. FIU Online

CLICK-12: For over 20 years, FIU Online has been on the cutting edge of digital course design. When the coronavirus pandemic caused a rapid shift to remote learning, we knew we had to deploy our know-how to support K-12 educators. To that end, FIU Online created CLICK-12, a four-part webinar series that shared best practices with K-12 teachers meeting the challenge of digitizing their classrooms fast. While we suspected a general need for dependable expertise in online learning, the results exceeded our expectations: over 3,750 teachers registered for our webinars, representing upwards of 1,000 schools from around the globe, including 48 states in the US and 34 countries, namely Canada, the Bahamas, Venezuela, North Macedonia, and Brazil. Our success ultimately came down to K-12 educators’ immediate need for quickly obtaining well-tested basics and evidence-based practices that guaranteed quality remote learning.

HyFlex Support: In support of the university’s goal to offer on-campus learning experiences for students while continuing to follow safe physical distancing guidelines, a flexible hybrid course option called HyFlex is now available, and faculty course design support will be provided by a special projects team managed by FIU Online. These HyFlex courses blend both meaningful on-campus interactions and significant online learning activities. As the name suggests, the HyFlex course mode allows a great deal of flexibility in scheduling and structuring the online and in-person learning experience.
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