

# JEREMY ALEXIS MAGRUDER WAISOME

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## EDUCATION

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<b>Doctorate of Philosophy</b> in Civil Engineering University of Florida, Gainesville, Florida Admission to Candidacy: July 2014	December 2017 <i>(Expected Graduation)</i>
Graduate Certificate in Sustainable Engineering University of Florida, Gainesville, Florida	May 2013
<b>Masters of Science</b> in Civil Engineering University of Florida, Gainesville, Florida	May 2012
<b>Bachelors of Science</b> in Civil Engineering University of Florida, Gainesville, Florida	May 2010

## RESEARCH

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<b>Doctoral Research</b> Thesis: <i>Evaluation of Asphalt Pavement Interface Conditions to Enhance Long Term Pavement Performance</i> Professor: Reynaldo Roque, Ph.D. <ul style="list-style-type: none"><li>Conducted research at the University of Florida Department of Civil and Coastal Engineering materials laboratories</li><li>Developed new testing configuration and methodology to evaluate pavement interface conditions under application of repeated shear loads</li></ul>	2014-Present
<b>Defense Threat Reduction Agency, Student Research Associate Program II</b> Title: <i>Characterization of Damage in Concrete using X-Ray Computed Tomography</i> Professor: Mang Tia, Ph.D. <ul style="list-style-type: none"><li>Conducted research at the Florida Department of Transportation (FDOT) State Materials Office on concrete samples to obtain concrete mix design and testing skills. Tested samples using an X-Ray Computed Tomography Machine to regenerate 3D models of samples to understand and characterize failure</li></ul>	2010-2011
<b>Development of Tiered Aggregate Specifications for FDOT Use</b> Title: <i>Development of Tiered Aggregate Specifications for FDOT Use</i> Principle Investigator: Dr. Mang Tia <ul style="list-style-type: none"><li>Assisted lead researcher, Patrick Bekoe, and conducted tests at the FDOT State Materials Office on aggregate and concrete samples. Contacted rock quarries across the state of Florida for information</li></ul>	2010-2011

## Independent Research

2007-2008

Title: *Modular Homes as an Alternative Solution for Low Income Families*

Professor: Fazil Najafi, Ph.D.

- Conducted interviews with Central Florida public officials and visited sites of existing affordable housing solutions

## WORK EXPERIENCE

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### **Institute for African American Mentoring in Computing Sciences (iAAMCS)**

2017-Present

- Project Manager for NSF Broadening Participation in Computing Alliance Award #130156 under the advisement of Dr. Juan E. Gilbert
- Oversees all administrative activities under the multi-institutional grant, including organizing all leadership team meetings, preparing annual reports and content for grant renewal, and disseminating data to all project Co-PIs, etc.
- Collaborates with all Co-PIs to ensure the goals of the overall grant are met
- Represents iAAMCS at technical conferences and events
- Supports writing and presenting developed research for publication in collaboration with the external evaluation team

### **NSF INCLUDES: Consortium of Minority Doctoral Scholars (CMDS)**

2017-Present

- Graduate Research Assistant volunteer in support of NSF Award #1649320
- Represents CMDS at prominent minority doctoral scholars programs (GEM, SREB and McKnight)
- Assists with administrative activities, including planning and attending conference calls, and distributing information to all entities involved
- Supports writing and presenting developed research for publication in collaboration with the external evaluation team

### **Ronald E. McNair Scholars Program STEM Peer Advisor**

2012-2016

- Mentor for minority science, technology, engineering and mathematics undergraduate students participating in a year-long intensive research program in preparation for success in higher education
- Assist with recruitment and selection of McNair scholars

### **Florida Summer Board of Education Fellowship Peer Advisor**

Summer 2012

- Mentored incoming minority and/or first generation graduate students
- Assisted with fostering relationships amongst participants, acclimating participants to the local and university community and familiarizing participants with university resources

### **University of Florida Office of Graduate Minority Programs, Summer Research Experience for Rising Seniors Mentor**

Summer 2011

- Mentored rising non-UF undergraduate students focused on science and engineering in a 10-week-research-based program
- Helped students prepare poster presentations, and prepare for graduate school

### **Malcolm Pirnie, Inc. Summer Intern**

Summer 2009

- Engineering Intern in Municipal Group under Senior Associate Dr. Celia Earle
- Major project: Miami-Dade Department of Solid Waste Management Appropriateness of Rates and Fees-represented company at client meetings, communicated with different departments, developed sections of the final report

- Major project: Broward County Alternative Water Supply Master Plan- researched alternative water supply solutions, correspondence to state and local agencies, developed tables, GIS maps, developed sections of the report and the report's outline, attended client meeting

**University of Florida College of Engineering, Teachers Assistant**

Spring 2008

- Teacher Assistant for the Department of Civil and Coastal Engineering Ethics Course
- Graded all assignments and facilitated all exams

## SKILLS

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### X-Ray Computed Tomography

- Operator of Industrial X-Ray Computed Tomography System manufactured by North Star Imaging (NSI)
- Provide on-site training and imaging for clients as needed
- Developed documentation on device specifications and capabilities. Developed training-related documentation on the operation of the device
- Perform routine maintenance on equipment
  - Clients include: NASA, The Army Corps of Engineers, University of Florida Department of Anthropology, University of Florida Department of Civil and Coastal Engineering

### Scanning Electron Microscopy

- Trained to operate traditional and environmental Scanning Electron Microscope
- Learned radiography techniques through Material Science and Engineering Scanning Electron Microscopy Course

### Graduate Courses

Finite Elements in Civil Engineering, Superpave Hot Mix Asphalt Analysis, Advanced Pavement Materials, Pavement Distress Mechanisms, Advanced Reinforced Concrete, Properties and Evaluation of Pavement Materials, Advanced Structural Analysis, Green Engineering Design and Sustainability

### Software

Computer Skills: ADINA Finite Element Analysis Software, Mathcad, AutoCAD  
 Proficient in Microsoft Office Suite, FXE-Control, X-View CT

## HONORS & AWARDS

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- Edward E. Bouchet Graduate Honor Society Inductee 2017
- UF Office of Research Travel Award 2016
- Graduate Student Outstanding Service/Leadership Award in Civil and Coastal Engineering 2013
- University of Florida National Science Foundation South East Alliance for Graduate Education and the Professoriate Award 2013
- Florida Blue Key Inductee 2011
- Defense Threat Reduction Agency Student Research Associate Program II Award 2010-2011
- National Science Foundation Bridge to the Doctorate Fellowship Recipient 2010-2012
- University of Florida Graduate Student Fellowship Recipient 2012-Present
- Florida Board of Education Summer Fellowship Recipient Summer 2010
- **UF Hall of Fame Inductee** Spring 2010
- UF Outstanding Leadership Award Recipient Spring 2010
- Florida Georgia Alliance for Minority Participation Scholar 2008- 2012

- Honor Societies: Alpha Lambda Delta National Honor Society Member, National Society of Collegiate Scholars National Member, Phi Eta Sigma National Honor Society Member

## TRAVEL

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**SEAGEP International Program** Summer 2011  
 Selected to participate in study abroad course in China entitled: Science and Engineering in a Global Context

**International Studies Abroad, Santander** Summer 2008  
 Studied Spanish Language, Composition and Culture in Spain

### Countries/Territories Visited

China, Spain, Italy, Germany, Switzerland, England, France, Mexico, Belize, Costa Rica, Panama, Jamaica, Haiti, Puerto Rico, US Virgin Islands, Cayman Islands, Barbados, Bahamas, and Canada

## PROFESSIONAL AFFILIATIONS

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**Association for Computing Machinery** 2017-Present

- Member

**American Society for Engineering Education** 2016-Present

- Southeast Region Secretary-Elect 2017-2018

**The National Society of Black Engineers** 2003-Present

- University of Florida Graduate Student Group Coordinator 2012-2016
- University of Florida Chapter Advisor 2010-Present
- Founder, National Graduate Student Group Online 2013
- National Leadership Institute Director of Leadership Development 2012-2013
- University of Florida Chapter President 2008-2009
- National Convention Planning Committee Pre-College Initiative Chair 2008
- Regional Pre-College Initiative Chair 2007-2008

**Florida Blue Key** 2011-2016

- Vice President of Membership Spring 2013
- Inductee Fall 2011

**Epsilon Lambda Chi** 2008-2016

- President 2009-2010

**The American Society of Civil Engineers** 2005-2016

- Student Member

**Chi Epsilon** 2010-2016

- Student Member

**The American Concrete Institute** 2011-2013

- Student Member

## SERVICE

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**University of Florida Diversity & Academic Inclusion Group** 2016-Present

- Participates in the Associate Provost For Undergraduate Affairs' Diversity and Academic Inclusion Group
- Attends monthly meetings to develop initiatives to institutionalize diverse curricula into undergraduate coursework and identify ways to create a more inclusive culture at UF

<b>College of Engineering STEPUP/EFTP Women in Engineering Luncheon</b>	2015-Present
<ul style="list-style-type: none"> <li>• Coordinated weekly luncheon for STEPUP and EFTP participants to hear from female engineering faculty, staff and graduate students on their experiences that led to their current roles in Academia</li> <li>• Worked with College of Engineering administration and staff to identify faculty to attend and coordinated all other logistics involved in the luncheon</li> </ul>	
<b>Ronald E. McNair Scholars Advisory Council</b>	2014-Present
<ul style="list-style-type: none"> <li>• Provide the director and staff recommendations on policies, procedures and operational changes to enhance the McNair Program</li> <li>• Assist with recruitment and selection of McNair scholars, peer advisors and faculty research mentors, and participate in academic and social activities of the program</li> </ul>	
<b>Florida Diversity Summit</b>	2014
<ul style="list-style-type: none"> <li>• Planned a state-wide initiative on increasing engineering faculty diversity as a follow up to the American Society for Engineering Education National Academy of Engineering Diversity Summit</li> <li>• Developed and facilitated graduate student sessions to address specific challenges and barriers to diverse students pursuing academic positions upon graduation</li> <li>• Presented specific outcomes of the graduate student sessions to all attendees</li> </ul>	
<b>Newberry Martin Luther King, Jr. Center</b>	2014
<ul style="list-style-type: none"> <li>• Identified student group to tutor elementary and middle school students at the Center to prevent its closing due to lack of use</li> </ul>	
<b>Gilchrist District Science Fair</b>	2014
<ul style="list-style-type: none"> <li>• Presented hands-on activity entitled “What is Engineering” to 3<sup>rd</sup>-5<sup>th</sup> grade students</li> <li>• Organized activity for students to understand civil engineering (structures)</li> </ul>	
<b>Civil, Coastal, and Environmental (CCE) Engineering Graduate Student Advisory Council</b>	2011-2015
<ul style="list-style-type: none"> <li>• Selected to represent the Materials group</li> <li>• Discuss issues relevant to students in the CCE departments</li> <li>• Provide workshops and events related to leadership, career preparation, technical writing and cultural aspects for students</li> </ul>	
<b>Department of CCE Annual Commencement Celebration Committee</b>	2011-2013
<ul style="list-style-type: none"> <li>• Appointed to create a commencement event for all graduating students in the department</li> <li>• Produced video for graduating students and retiring faculty</li> </ul>	
<b>University of Florida College of Engineering Undergraduate Scholarship and Awards Committee</b>	2010-2011
<ul style="list-style-type: none"> <li>• Served as one of two graduate students on the committee</li> <li>• Reviewed and helped select all Commencement Award Recipients</li> </ul>	
<b>Department of Civil and Coastal Engineering Advisory Board Meeting Student Guest</b>	2010, 2011
<ul style="list-style-type: none"> <li>• Selected to express concerns and feelings of the program to the board on behalf of the department</li> </ul>	
<b>College of Engineering Centennial Celebration</b>	2010
<ul style="list-style-type: none"> <li>• Volunteered to assist as needed with all programmatic aspects of the events for the week</li> <li>• Selected to attend the VIP Kickoff Reception for alumni, distinguished guests and companies that invest in the college</li> </ul>	

## CONFERENCES/TALKS

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<b>2017 American Society of Engineering Education Zone II Conference</b>	March 2017
Conference Proceedings: Building Communities through the Creation of Dialogue Authors: Waisome, J.A.M., Gilbert, J.E., Roberts, S.E., McCune, D.B., Taylor, C.	

<b>2017 U.S. Army Corps of Engineers, Jacksonville District Black History Month Celebration</b>	February 2017
Topic: Success Always Leaves Footprints-The Crisis in Black Education	
<b>2016 American Society of Engineering Education Annual Conference</b>	June 2016
Conference Proceedings: As Purple is to Lavender: Exploring Womanism as a Theoretical Framework in Engineering Education	
Authors: Thomas, L.D., Watt, D.L., Cross, K.J., Magruder, J.A., Easley, C.R., Monereau, Y.J., Phillips, M.R., Benjamin, A.M.	
<b>National Society of Blacks in Computing Conference</b>	June 2016
Facilitator for the Graduate Track of the conference	
<b>8<sup>th</sup> RILEM International Conference: Mechanisms of Cracking &amp; Debonding in Pavement</b>	June 2016
Conference Proceedings: Localized Debonding as a Potential Mechanism for Near-Surface Cracking	
Authors: Hernando, D., Magruder, J.A., Zou, J., Roque, R.	
<b>Florida Statewide Graduate Student Research Symposium</b>	April 2016
Invited judge	
<b>Association of Asphalt Paving Technologist Annual Meeting</b>	March 2016
Poster Presented: Evaluation of Asphalt Layer Interface Breakdown under Repeated Shear	
Professor Reynaldo Roque, Ph.D.	
<b>Academic Research and Leadership Symposium</b>	Spring 2015
Selected to participate in the Faculty Development track of the ARLS Symposium	
Poster Presented: Evaluation of Asphalt Layer Interface Resistance to Bond Degradation Through Repeated Load	
Professor Reynaldo Roque, Ph.D.	
<b>The Compact for Faculty Diversity Institute on Teaching and Mentoring</b>	2013, 2014, 2016
Selected as a representative for the University of Florida as a National Science Foundation Alliance for Graduate Education and the Professoriate Fellow	
<b>University of Florida Innovation through Institutional Integration Graduate Student Grants and Fellowships Conference</b>	Spring 2012
Attendee/Volunteer	
<b>Chi Epsilon National Conclave</b>	Spring 2012
Recruiter for the Engineering School of Sustainable Infrastructure & Environment	
<b>SEAGEP Annual Meeting</b>	Fall 2011
Presentation title: UF in Beijing Presentation-Science Communication and Culture	
<b>The National Society of Black Engineers Region 3 Fall Regional Conference</b>	2012
Recruiter for the College of Engineering	
<b>The National Society of Black Engineers National Convention</b>	2011-2014
Recruiter for the Engineering School of Sustainable Infrastructure & Environment	
Recruiter for the University of Florida Office of Minority Programs	
<b>Florida Georgia Louis Stokes Alliance for Minority Participation</b>	2009, 2011
Presenter title: Modular Homes as an Alternative Solution for Low Income Families	
Professor Fazil Najafi, Ph.D.	