

MONIQUE ROSS
SCHOOL OF COMPUTING AND INFORMATION SCIENCES,
STEM TRANSFORMATION INSTITUTE
CURRICULUM VITAE

EDUCATION

Degree	Institution	Field	Date
Ph.D.	Purdue University	Engineering Education	August 2016
Master's	Auburn University	Software Engineering & Computer Science	December 2011
Bachelor's	Elizabethtown College	Computer Engineering	May 2001

FULL-TIME ACADEMIC EXPERIENCE

Institution	Rank	Field	Dates
Florida International University	Assistant Professor	Computing and Information Sciences	August 2016 - Present
Indiana Institute of Technology	Associate Professor	College of Engineering	August 2013 – May 2014
Indiana Institute of Technology	Director of Software Engineering	School of Computer Sciences	January 2006 - May 2008

PART-TIME ACADEMIC EXPERIENCE

Institution	Rank	Field	Dates
Indiana Institute of Technology	Adjunct Faculty	School of Computer Sciences	August 2005 - May 2006

NON-ACADEMIC EXPERIENCE

Place of Employment	Title	Dates
Raytheon Systems Company	Sr. Software Engineer II	2010-2013
Raytheon Systems Company	Sr. Software Engineer I	2008-2010
Raytheon Systems Company	Software Engineer II	2003-2006
Raytheon Systems Company	Software Engineer I	2000-2003

EMPLOYMENT RECORD AT FIU

Rank	Dates
Assistant Professor	08/2016 - present

PUBLICATIONS IN DISCIPLINE

Journal Articles [2]

- Ross, M., Capobianco, B., Godwin, A.** Re-positioning identity as a viable theoretical framework for studying Black women in engineering. *Journal of Women and Minorities in Science and Engineering* 23(1), 37-52 (2017) 2017
- Potvin, G., McGough, C., Benson, L., Boone, H.J., Dolye, J., Godwin, A., Kirn, A., Ma, B., Rohde, J., **Ross, M.**, Verdin, D. (2018) Gendered interests in electrical, computer, and biomedical engineering: Intersections with career outcome expectations. *IEEE Transactions on Education* xx(x), xx-xx (2018) 2018

Conference Proceedings [7] (*Undergraduate student advisee; †Graduate student advisee; º Best paper award)

Kern, A., Godwin, A., Pearson, N., Rodriguez-Simmonds, H., Ann Rohde, J., Vealey, K., Jackson, B., Li, O., Nittala, S., Verdin, D., **Ross, M.** Building Support for Diversity through Engineering Teams. 124th ASEE Annual Conference & Exposition, June 25-28, 2017. June 2017

Kern, A., Godwin, A., Cass, C., Huff, J., **Ross, M.** (2017) Mindful Methodology: A transparent dialogue on adapting Interpretative Phenomenological Analysis for engineering education. 124th ASEE Annual Conference & Exposition, June 25-28, 2017. June 2017

Fletcher, T., **Ross, M.** (2017) Instructors perceptions of Site Leadership within a Summer Engineering program (evaluation). 124th ASEE Annual Conference & Exposition, June 25-28, 2017. June 2017

Ross, M. (2017) Workshop: Know thyself- Retaining your authentic self in the computing workplace. TAPIA (ACM Richard Tapia Celebration of Diversity in Computing) Conference, September 20-23, 2017. September 2017 - CANCELLED

Ross, M. (2017) Diversity and Inclusion: Leveraging existing skills in preparation for the engineering workplace. National Association of Multicultural Engineering Program Advocates (NAMEPA) Conference, September 10-13, 2017. Presented as Webinar, Feb., 28, 2018 – Due to Irma Feb. 2018

Garcia, A. *, **Ross, M.**, Hazari, Z., Solis, T., Weiss, M., Christensen, K., Georgiopoulos, M. (2018). Examining the Computing Identity of High-Achieving Underserved Computing Students on the Basis of Gender, Field, and Year in School. The Collaborative Network for Engineering and Computing Diversity Conference (CoNECD) May 2018

Ross, M., Garcia, A., * Fletcher, T., Kramer, L., Thamotharan, V. (2018). I lead, therefore I am: The impact of student-mentor leadership opportunities on STEM identity development and sustainability. 125th ASEE Annual Conference & Exposition, June 24-27, 2018. June 2018

Bhutta, K. * º, Dou, R., **Ross, M.** Computer Science Identity: Decoding career interest & stereotype barriers. FIU Undergraduate Research Symposium; FIU Teach Conference April 2018

Government Reports or Monographs [1]

Fletcher, T., **Ross, M.**, Tolbert, D., Holly, J., Cardella, M., Godwin, A., DeBoer, J. (2017). Ignored potential: A collaborative roadmap for increasing African American Women in Engineering. National Society of Black Engineers, Society of Women Engineers, Women in Engineering ProActive Network 2017

PRESENTED PAPERS, AND LECTURES

Discipline Based Education Research Seminar- Making Citizens: Tackling bias through course design Florida International University November 7, 2016

Lecturer – Interpretative Phenomenological Analysis (IPA) as an inquiry method Purdue University November 15, 2016

Lecturer - Computer science education research demystified	Florida International University	December 13, 2016
Debugging the Gender Gap, Code Art, Invited Panelist	University of Miami	January 24 2017
N2 Women Meeting, ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems	Invited Speaker	November 22, 2017
Lehigh Valley University ADVANCE Speaker: Ignored Potential	Invited Speaker	April 4-5, 2018

CREATIVE WORK

WORKS IN PROGRESS

Kirn, A., Huff, J. L., Godwin, A., Ross, M. , Cass, C. (2017) Collaborative Inquiry of Adaptations to Interpretative Phenomenological Analysis for Engineering Education Research. Journal of Qualitative Research in Psychology	In review, Oct. 2017
Ross, M. , Hazari, Z., Sonnert, G., Sadler, P. (2017) The intersection of being Black and being a woman: Examining the effect of social computing relationships on computer science career choice. ACM Transaction on Computing Education.	In review, Jan. 2018

PROPOSALS AWARDED [4 PI + 1 co-PI = \$1,977,444; PI= \$777,444]

Verizon Global Corporate Citizenship - Programmatic Proposal 2017, Verizon Innovative Learning for Minority Males Program: FIU Pathways to STEM, \$396,000, PI	March 23, 2017
UP CS Education Research Pre-Symposium Attendee Award, Clemson University, \$238.98	February 8, 2017
IUSE, NSF, Understanding the implications of gamification on women computer science students' engagement and women-CS fit, \$300,000, Award# 1712116 - PI	July 19, 2017
Center for Homeland Security Research and Education, U.S. Department of Homeland Security, Center for Advancing Education and Studies on Critical Infrastructure Resilience (CAESCIR), 8/9/2017-7/31/2022, \$1.2M – Co-PI	August 9, 2017
EAGER, NSF, BPE Demystifying the Engineering and Computer Science Underrepresentation Problem: Understanding the pathways to and through these Disciplines for Black and Hispanic Women, \$71,206 – PI	August, 2017
NCWIT Extension Services for Undergraduate Programs (NCWIT ES-UP), 12/21/2017, \$10,000 – PI	2017

PROJECTS

DUE: Collaborative Research: Florida IT Pathways to Success (Flit-Path), \$1,944,118.00, Award# 1643965, Co-PI	Awarded - May 23, 2017
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ADVISING

Jose Urdaneta

Graduate assistant

Atalie Garcia	Undergraduate
Ronald Concepcion	Undergraduate
Jasmine Batten	Undergraduate
Salvador Ricardo	Undergraduate
Daniel Perez	Learning Assistant
Alejandro Thornton	Learning Assistant
Dionny Santiago	Master's Committee Member
Gregory Reis	Ph.D. Committee Member
Sebastian Zanlongo	Ph.D. Committee Member
Johnathan Mahedeo	Ph.D. Committee Member
Mohsen Taheri ‡	PhD Advisor
Maral Kargarmoakhar	PhD Advisor
Leila Zahedi	PhD Advisor

‡Provost Outstanding Student Engagement Awardee

OFFICES HELD IN PROFESSIONAL SOCIETIES

Member, Nomination Committee Chair (2018), American Society of Engineering Education
 Member, Association of Computing Machines
 Member, Special Interest Group Computer Science Education

Teaching Activities

Undergraduate Courses: CEN 4010 Software Engineering I
 Spring 2017
 Fall 2017
 Spring 2018

University Service:

Panther Plus, Faculty Advisor	2017-2018
Diversity Mentor Professor Search Committee Member	2017-2018
FIU STEMCon: Outlook and Opportunities for Minorities in STEM	2018

SCIS Service:

Instructor Hiring Committee	2016-2017
STEM Coordinator	2016-2017
Software Engineering Course Sub-committee	2016-2017
Infrastructure Committee	2016-2017
WICS Student Chapter Faculty Advisor	2016-2017
ACM-W (Graduate) Student Chapter (Founding) Faculty Advisor	2016-2017
NCWIT Learning Circle Change Leader (chair)	2016-2017
Research Hiring Committee	2017-2018
Instructor Hiring Committee (chair)	2017-2018
Subject Area Coordinator for the Software Engineering Courses	2017-2018

Professional Service:

ASEE Conference Moderator	Columbus, OH	June 2017
Girls Who Code (GWC) Summer Immersion Program: Career Panel for Women in Computer Science	FIU	July 21, 2017
Invitational Symposium, Impacting Equity through Evidence – SRI Education	Invited participant	January 26, 2018
American Society of Engineering Education Conference	Nominating Committee Chair	2017-2018
ASU: NSF Impact Framework Workshop	Invited Participant	Feb 5-7, 2018
2018 blackComputeHER.org Conference	Gala Award Committee Chair	April 4-6, 2018
Collaborative Network for Engineering and Computing (CoNECD) Moderator	Washington, D.C.	April 28 - May 2, 2018

Reviewer:

Journal

Journal of Engineering Education

Journal of Women and Minorities in Science and Engineering

Journal of Professional Issues in Engineering Education and Practice

Communications of the ACM

Computer Science Education

Computers in Education (COED) Journal

American Educational Research Journal

Conference

American Society of Engineering Education Conference (ASEE)

American Society of Engineering Education Conference

Special Interest Group Computer Science Education (SIGCSE)

Frontiers in Education

Collaborative Network for Engineering and Computing (CoNECD)

NSF Review Panel

Manuscript

JEE-2016-0513

JWMSE-19616

EIENG-1007

CACM-16-10-2681

NCSE-2017-0001

27-86-1

AERJ-17-0458

2016-2017

2017-2018

2017-2018

2016-2017

2017-2018

2017

Community Service:

Miami-Dade STEM Advisory Board Member (2016-2018)

Hour of Code, Pinecrest Academy North, Miami-Dade County Schools (December 15, 2016)

Day of Code, Young Women Preparatory Academy, Miami-Dade County School (October 18, 2017)