

RENETTA GARRISON TULL

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VISION

To create and build sustainable, globally competent communities of inclusive excellence in higher education that accelerate innovation and positively impact the human condition.

RESEARCH INTERESTS OVERVIEW

Global STEM diversity; high impact practices for student success; faculty diversity; inclusive excellence in higher education; Psychological Sense of Community (PSOC), communities of practice; humanitarian engineering.

EDUCATION

1999	University of Wisconsin-Madison	Anna Julia Cooper Postdoctoral Fellow
1999	Northwestern University	Ph.D. in Speech Science
1994	Northwestern University	M.S. in Electrical Engineering
1991	Howard University	B.S. in Electrical Engineering

POSITIONS

2017-present	Univ. of MD Balt. County (UMBC)	Associate Vice Provost (AVP) For Strategic Initiatives
2017-present	UMBC College of Engineering &IT	Professor of the Practice
2016-present	University System of Maryland	Director for Graduate and Professional Pipeline Development
2016-present	University System of Maryland	Special Assistant to the Senior Vice Chancellor
2015-present	UMBC (lead)/USM	Co-Director/Co-PI, Louis Stokes Alliance for Minority Participation (LSAMP) – 5 campuses (3 partners, 2 affiliates)
2012-2017	UMBC	AVP for Graduate Student Development & Postdoctoral Affairs
2007-2012	UMBC	Assistant Dean for Graduate Student Development
2005-present	UMBC	Director & Co-PI, LSAMP Bridge to the Doctorate Program
2003-present	UMBC (lead)/USM	Founding Director of PROMISE: Maryland’s Alliance for Graduate Education and the Professoriate (AGEP)
2003-present	UM College Park	Adjunct Faculty, Department of Hearing and Speech Sciences
2000-2003	DVIP Multimedia, Inc.	Vice President, Operations
2000-2001	University of Wisconsin-Madison	Assistant Professor, Communication Sciences and Disorders
1999-2001	University of Wisconsin-Madison	Research Associate, Waisman Center (Disabilities Research)
1999-2001	University of Wisconsin-Madison	Research Affiliate, Trace Research & Dev. Cntr - Engineering
1999-2000	University of Wisconsin-Madison	Postdoctoral Fellow, Vocal Physiology
1996-1999	Northwestern University	Laboratory Coordinator, Stuttering Lab
1992-1999	Northwestern University	Research Assistant, Speech Perception, Speech Physiology, Voice, Digital Speech & Audio Signal Processing
1996-1997	Northwestern University	Assist. to the Director, Searle Center for Teaching Excellence
1994	Rutgers University	Summer Intern, Center -Computer Aids for Industrial Activity
1991, 1992	Kodak Research Laboratory	Summer Intern, Divisions: Multimedia, Software Engineering
1988-1990	General Electric	Summer Intern, Military and Data Systems Operations (Security Clearance: EBI)

AWARDS AND HONORS

2018	United Nations, HQ	<i>Invited Speaker.</i> Commission on the Status of Women CSW 2018 Side Event, “ <i>Empowering Rural Women in Engineering Fields,</i> ” United Nations Headquarters, NYC (March 2018)
2017-2019	National Academies of Sciences, Engineering, and Medicine	<i>Invited Member.</i> Committee on Effective Mentoring Programs and Practices in Science, Technology, Engineering, Mathematics, and Medicine (STEMM)
2017	United Nations, HQ	<i>Invited Speaker: “Women’s Empowerment in the Engineering World,”</i> United Nations Headquarters, NYC (March 2017)
2016	ABET	ABET (Accreditation Board for Engineering and Technology) Claire L. Felbinger Award for Diversity (2016)
2015	Global Engineering Deans Council/Airbus Corporation	<i>Finalist – Top 3</i> (Dec. 2015, Ceremony: Adelaide, Australia); <i>Top 10 International Shortlist:</i> (Sep. 2015, Florence, Italy)
2013	Plainfield High School	<i>Plainfield High School Hall of Fame</i> Plainfield, NJ (2013)
2011	Tau Beta Pi	<i>Lifetime Honorary Member Tau Beta Pi – Eminent Engineer,</i> DC Alpha Chapter (2011)
2009	American Institute of Mathematics (AIM)	<i>Team Travel Award “Finding and Keeping Graduate Students in the Mathematical Sciences”</i> Palo Alto, CA, Aug 2-6, 2009
2008	National GEM Consortium	<i>National University Member of the Year -</i> Awarded at the Library of Congress
2003	Montgomery County Maryland Technology Growth Fund	<i>Awardee,</i> \$100K, Montgomery County Maryland Technology Growth Fund Award
2002	Maryland Technology Development Corporation	<i>Awardee,</i> \$100K, Maryland Department of Business and Economic Development Challenge Grant
1999-2000	University Wisconsin-Madison	<i>Awardee,</i> Division of Information Technology/Department of Learning Technology and Distance Education, Web Works Grant
1999-2001	National Institutes of Health (NIH)	<i>Awardee,</i> National Institute on Disability & Rehabilitation Research (NIDRR) Rehabilitation Engineering Research Center (RERC), Voice Variation Project, Trace R&D Center
1997-1998	NIH	<i>Awardee,</i> National Institute on Deafness and Other Communication Disorders (NIDCD) Small Research Grant No. 1 R03 DC03650-01
1997	American Speech-Language Hearing Association (ASHA)	ASHA Travel Grant

1996	Women in Science and Engineering (WISE)	WISE Travel Grant
1995	Searle Center for Teaching Excellence (SCFTE)	SCTFE Teaching Assistant Fellow
1995-1997	Northwestern University	Northwestern University Fellow
1991-1994	Illinois Minority Graduate Incentive Program (IMGIP)	IMGIP Fellow (1991-1994)

EARLY LEADERSHIP HONORS AND AWARDS

1990-1992	National Society for Black Engineers (NSBE)	<i>Leadership Committee Programs Vice Chair (1991-1992)</i> <i>National Committee Chair of the Year (1991)</i> <i>National Member of the Year (1990)</i> <i>National Charter/Membership Chair (1990-1991)</i>
1986-1991	Howard University	<i>Senator, Howard University Student Senate</i> <i>Grievance Director, Howard University Undergraduate Assembly.</i> Scholarships: <i>National Association of University Women (NAUW), American Association of University Women (AAUW), American Association of Blacks in Energy, Howard University, Alpha Kappa Alpha, Delta Sigma Theta, Zeta Phi Beta, Omega Psi Phi.</i>
Pre-College	Plainfield Community Science Program	<i>Co-Founder, S.A.F.E. (Students Against the Fighting Epidemic), Union County, NJ</i>
	Engineering Program	California Institute of Technology Summer Internship Program, Pasadena, CA University of Massachusetts-Amherst. Amherst, MA

GRANTS AND FUNDING

\$2.0MM	Co-PI	NSF PROMISE Academy (UMBC, College Park, Towson, UMB, Salisbury), <u>In review.</u>
\$2.4MM	Co-PI	NSF A Post-Baccalaureate Program in the Mathematical Sciences (UMBC), <u>In review.</u>
\$1.0MM	Co-PI	NSF LSAMP Bridge to the Doctorate at UMES, <u>In review</u>
\$80.0K	Co-PI	The Council of Graduate Schools (CGS) Understanding PhD Career Pathways for Program Improvement (UMBC, Morgan), 2017-2020
\$399K	PI	NSF PROMISE Engineering Institute (UMBC, College Park, Johns Hopkins, Morgan State), 2017-2019
\$5.0MM	Co-PI	NSF Louis Stokes Alliance for Minority Participation – LSAMP (2016-2021)
\$300K	Co-PI	NSF Center for the Integration of Research Teaching & Learning (CIRTL) INCLUDES (w/ UW-Madison, 2016)

\$5.0MM	Co-PI	NSF LSAMP (2010-2016), assumed Co-PI role in 2015
\$987K	Co-PI	NSF Alliances for Broadening Participation in STEM/LSAMP Bridge to the Doctorate, (2015-2017, NCE 2018)
\$49K	PI	NSF International Engagement and Broadening Participation in STEM from a Family-Friendly Perspective for Women of Color, (2014-2015)
\$300K	Co-PI	NSF On-Ramps to the Professoriate, Career-Life-Balance, (2014-2016)
\$1.7MM	Co-PI	NSF Collaborative Research – PROMISE AGEP: Maryland Transformation (AGEP), (2013 – 2017, NCE 2018)
\$40K	Co-PI	Enhancing Student Financial Literacy (UMBC), Council of Graduate Schools (2013 – 2015)
\$400K	Co-PI	DoEd Graduate Assistantships in Areas of National Need (GAANN), UMBC Inf. Systems Department of Education (2012-2015)
\$150K	PI	NSF Collaborative Research: ADVANCE Hispanic Women in STEM (Universidad Metropolitana, San Juan, PR (2012-2014)
\$37K	PI	NSF Collaborative Research – PROMISE: MD’s AGEP & Quality of Life Center (QoLT), Carnegie Mellon (2011-2012)
\$30K	Co-PI	CGS Doctoral Initiative on Minority Attrition and Completion, Council of Graduate Schools (2012-2013)
\$987K	Co-PI	NSF Alliances for Broadening Participation in STEM – LSAMP: Bridge to the Doctorate, (2009-2011)
\$987K	Co-PI	NSF Alliances for Broadening Participation in STEM – LSAMP: Bridge to the Doctorate, (2011-2013)
\$987K	Co-PI	NSF Alliances for Broadening Participation in STEM – LSAMP: Bridge to the Doctorate, (2013-2015)
\$1.5MM	Co-PI	NSF PROMISE: Maryland’s Alliances for Graduate Education & the Professoriate (AGEP), (2008-2010)
\$150K	Co-PI	NSF PROMISE Pathways (2011-2013)
\$30K	Co-PI	CGS Ph.D. Completion Project Grant (UMBC, 2004, 2007)

PRESS / MEDIA

- 2017:
1. Effective STEM Education Programs: Cultivating Success Among Underrepresented Minority Students, by Quintina M. Clark, in MSIs Unplugged, The Penn Center for Minority Serving Institutions, Aug. 30, 2017
 2. Diversity in Action – Spring Special, 2017: Options in Education – Focused on Diversifying STEM Student Populations. UMBC: Serving a Diverse Student Body.
 3. Named in the 200: List of 200 Women of Color on Twitter, Jan. 4, 2017. <https://medium.com/@NikkyMill/a-list-of-200-women-of-color-on-twitter-d2d31a2278ff#.itc2obefa>

- 2016:
4. The Christian Science Monitor – Oct. 26, 2016: How can universities keep minorities in STEM graduate programs?
 5. The Atlantic – Jul. 6, 2016: Why Do So Many Graduate Students Quit? [PROMISE mention] <http://bit.ly/renettatullAtlantic>
 6. The Chronicle of Higher Education – Jul. 3, 2016: To Diversify the Faculty, Start Here.
 7. Named in the 35: *Women STEM Social Media Stars*, Women in Science You Should Be Following on Social Media: Your Guide To #WomeninSTEM on Social, Jun. 30, 2016. <https://medium.com/@scichic/women-in-science-you-should-be-following-on-social-media-9a31c9f997f1#.8uu8rdaru>
 8. The White House – Apr. 22, 2016: (PROMISE AGEP Listed) @WhiteHouse “My Brother’s Keeper STEM+” track #ThinkBigDiversity @NSF
- 2015:
9. Cultivating a psychological sense of community: A profile of Dr. Renetta Garrison Tull, from our latest report on women in the field of data, by Shannon Cutt for Radar, May 19, 2015. <http://bit.ly/renettatullPSOC>
 10. Global Webcast: Women in Data: Their Work and Achievements, O’Reilly Media, Apr. 15, 2015.
 11. UBMC Community, Collaboration, Career – Quoted: <http://bit.ly/renettatullCCC>, Mar. 2015
 12. O’Reilly Media – “Cover Girl for Women in Data,” Women in Data: Cutting-Edge Practitioners and Their Views on Critical Skills, Background, and Education, Feb. 2015 <http://bit.ly/renettatullCoverGirl>
- 2014:
13. Latinos Needed to Help Fill STEM Talent Pipeline, Experts Agree, Society for Human Resource Management (SHRM), Online article quote, author: Theresa Minton-Eversole, Oct. 24, 2014. <http://bit.ly/renettatullSHRM>
 14. The Atlantic - A New America: Empowering Hispanic Millennials for Tech Leadership (Invited panel), sponsored by the National Journal and The Atlantic, underwritten by Microsoft, Washington, DC., Sep. 18, 2014.
 15. MIT Tech TV Features (2014)
- 2013:
16. The Art of Mentoring: Promising Practices, Proven Results, Purdue University YouTube Channel, posted, Feb. 27, 2013
 17. MIT Tech TV Features (2013)
- 2012:
18. UMET Launches STEM Workshop Oct. 4-6. San Juan Daily Star (Newspaper), Puerto Rico. Thursday, Oct. 4, 2012 (Highlighting collaborative work with Universidad Metropolitana (UMET) and NSF’s ADVANCE Hispanic Women in STEM program.)
- 2011:
19. MIT Tech TV Features, Jun. 2011

- 2010: 20. MIT Tech TV Features (2010)
- 2009: 21. GEM Awards Achievers, Diversity/Careers in Engineering and Information Technology, Summer/Fall 2009, <http://bit.ly/renettatullGEMAward>
22. The Sounds of Progress: The Changing Role of Girls and Women in Science and Engineering, Perceptions of African-American Undergraduate Women in Their Pursuit of a Ph.D. in Science
23. MIT Tech TV Features (2009)
- 2008: 24. The Sounds of Progress: The Changing Role of Girls and Women in Science and Engineering, Perceptions of African-American Undergraduate Women in Their Pursuit of a Ph.D. in Science. <http://bit.ly/renettatullNPR>, National Public Radio - NPR, Sep. 2008
25. Jones, Kierra. (2008, Sep. 10). Alumna Brings Impact, 'Promise' to Graduate Students, The Hilltop, The Daily Student Voice of Howard University, Vol. 91, No. 12.
26. Prepare for Graduate School: Optimize Your Summer Research Experience, MIT TechTV, Jun. 2008 <http://techtv.mit.edu/videos/37-span-classhighlightrenettaspan-tull>
27. Bowen Nunez, J. (2008, Mar. 4). Speaking out on the post-doctoral experience. The ASHA Leader, 13(3), 24. <http://bit.ly/renettatullASHA>
- 2007: 28. What is PROMISE? <http://www.youtube.com>, (Advisor: Student Produced), Sep 2007
29. PROMISE in One Word, <http://www.youtube.com>, (Advisor. Student Produced), Sep 2007
30. Leveraging Your Undergraduate Experience for Graduate School Success, MIT TechTV, Jul. 2007.
31. MIT Tech TV <http://techtv.mit.edu/videos/2-span-classhighlightrenettaspan-tull>
- 2002: 32. BET Nightly News, (Minority Technology Businesses), May 29, 2002
- 2001: 33. Q&A (Implementing speech in assistive situations), Speech Technology Magazine, Jul/Aug 2001
34. Software Finds Speech Patterns Hard to Decipher, The Daily Cardinal, Apr. 30, 2001
- 1998: 35. Don Your Armor! Protect Your Research from Computer Hackers, In Chemistry, Vol. 8, No. 2 Nov./Dec. 1998.
- 1996: 36. Investigating the Common Cold to Improve Speech Technology, Media lay paper, Am. Institute of Physics, Dec. 1996.
37. "Faint Recognition", The Dallas Morning News, Dec. 9, 1996
38. "Speaker Recognition: Who Goes There?" Science &Technology, The Economist, Vol.

339, No 7969, pp.87-88, 1996

39. Cold-affected Speech and Speaker Recognition, Media lay paper, American Institute of Physics (AIP), May 1996
40. "Faint Recognition", The Dallas Morning News, Dec. 9, 1996
41. "Speaker Recognition: Who Goes There?" Science &Technology, The Economist, Vol. 339, No 7969, pp.87-88, 1996
42. Cold-affected Speech and Speaker Recognition, Media lay paper, American Institute of Physics (AIP), May 1996

MEDIA - SELECTED BLOG POSTS

- 2017: 43. R. Tull, "Overcoming Scholar Fear," renettatull.wordpress.com, Feb. 5, 2017
- 2016: 44. R. Tull, [Why Your Life Matters: Reflections from a STEM Perspective](http://renettatull.com), renettatull.com, Jul. 10, 2016
- 2015: 45. R. Tull, [Operation "Flood the Gates" for Faculty Diversity](http://renettatull.com), renettatull.com, Oct. 17, 2015
- 2014: 46. R. Tull, ["The Jessica Effect" and Women in STEM \(Mujeres en STEM\) – En Memoria de Jessica](http://renettatull.com), renettatull.com, Aug. 12, 2014
- 2012: 47. R. Tull, [Prepare for a successful Fall semester: Communicate with your faculty \(A message for new and continuing grad students\)](http://promiseagep.wordpress.com), promiseagep.wordpress.com, Aug. 30, 2012
48. R. Tull, [Finish the Dissertation Because You Can't Put "Almost Ph.D." Behind Your Name](http://renettatull.com), renettatull.com, Jul. 13, 2012.
49. R. Tull, [15 Things to Consider as You Prepare for Your Faculty Interview](http://promiseagep.wordpress.com), promiseagep.wordpress.com, Mar. 12, 2012
50. R. Tull, [Preparing for academic success in 2012: 5 things to do BEFORE classes begin](http://promiseagep.wordpress.com), promiseagep.wordpress.com, Jan. 23, 2012
51. R. Tull, [I want to defend my doctoral dissertation. How do I get a date from my faculty committee? Six Suggestions](http://thedissertationhouse.com), thedissertationhouse.com, Jan. 20, 2012

MEDIA - INVITED WEBINARS

- 2017: 52. Increasing Engineering Identity Among Diverse Students through Global Engagement, International Federation for Engineering Education Societies (IFEES), Jun. 23, 2017
53. Building Your Online Brand. The Sloan Foundation – SSMN, Jun. 9, 2017
- 2012: 54. Preparing for Graduate School: What to Expect and How to Build a Support Network.

Alliance/Merck Ciencia (Science) Hispanic Scholars Program, Wash., DC. Aug. 21, 2012

55. Proposal Writing (with Wendy Carter-Veale and Ruben Landau), Empowering Leadership Alliance, Rice University, Aug. 28, 2012
 56. The Final Defense (with Wendy Carter-Veale and Ruben Landau), Empowering Leadership Alliance, Rice University, Aug. 30, 2012
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TEACHING

1994-2004

Courses taught include:

- *Phonetics: The Science of Speech Production* (University of Maryland College Park, University of Wisconsin-Madison)
 - *Introduction to Communications Sciences* (University of Wisconsin-Madison), *Phonetics Lab* (Northwestern University)
 - *Introduction to Vocal Pathology Lab* (Northwestern University)
 - *Digital Speech Signal Processing* (Guest Lecture: "Understanding Spectrograms," Northwestern University)
 - *Original Course - SLaM: Speech, Linguistics, and Math – the Essence of Speaker Recognition Technology* (Northwestern University – National High School Institute)
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PUBLICATIONS AND PAPERS (MENTEES IN BOLD)

HIGHER EDUCATION: STUDENT & FACULTY ENGAGEMENT, RECRUITMENT & RETENTION

- 2018:
1. R. G. Tull, C. White, Y. Zastavker, and R. Sigamoney. International perspectives on Intersecting Engineering's Grand Challenges and the UN's Sustainable Development Goals. *2018 ASEE International Conference*. Paper accepted, in revision – final edits.
 2. R. G. Tull, **S. Hester**, **H. Medina**, **Y. Medina**, **E. Aparaka**, and **D. Williams**, Developing Humanitarian Engineering Perspectives among Underrepresented Scholars through Engagement with the Sustainable Development Goals in Global Contexts. *2018 ASEE Annual Conference and Exposition*, Paper accepted, in revision – final edits.
 3. R. G. Tull, High-Impact Educational Practices for Graduate Student Success (Abstract only), Understanding Interventions Conference, March 2018.
- 2017:
4. R. G. Tull. Championing PROMISE: A Focused Discussion on Fostering and Empowering Program Champions in STEM Doctoral Education. *Proc. of the Council of Graduate Schools Alliance for Graduate Ed. & the Professoriate (AGEP) National Forum*. 2017.
 5. C. K. White, R. G. Tull, Y. Zastavker, and R. Sigamoney. Exploring Intersections of Global Grand Challenges and Sustainable Development Goals. *Proc. of the World Engineering Education Forum*, Malaysia (Nov. 2017).
 6. R. G. Tull, **A. M. Reed**, P. P. Felder, **S. Hester**, **D. N. Williams**, **Y. Medina**, **A. Lo**, **E. Aparakakankanange**, and **P. Ordóñez**. Hashtag #ThinkBigDiversity: Social Media Hacking Activities as Hybridized Mentoring Mechanisms for Underrepresented Minorities in

STEM. Paper presented at the *2017 ASEE Annual Conference & Exposition*, Columbus, Ohio, June 2017. <https://peer.asee.org/28430> (also chosen for the ASEE Global Colloquium, Azores, Portugal, Sep. 2017)

- 2016:
7. R. G. Tull, Learning from “The Jessica Effect” to Prevent Violence Against Women in Science, Technology, Engineering, and Mathematics (STEM), In Preparation (from invited presentation at the GS8 conference, Apr. 2016).
 8. R. G. Tull, M. L. Petrie, M. Beltran Martinez, **F. D. Carter-Johnson**, B. Zayas, A. Byars-Winston, **A. M. Reed**, D. Vallas-Rosales, and C. Medienta. Women in STEM - Conversations in the Caribbean and Latin America. *Latin and Caribbean Journal of Engineering Education* (Invited, in preparation).
 9. R. G. Tull, Expanding the Pipeline: PROMISE Brings a New Phase of #ThinkBigDiversity to Maryland Grad Students. *Computing Research News*, Oct. 2016, Vol. 28/No.9.
 10. H. Okahana, J. Allum, P. P. Felder, and R. G. Tull. Data Sources PLUS: Implications for Practice and Research from Doctoral Initiative on Minority Attrition and Completion. *The Council of Graduate Schools* (CGS Online Publication: <http://cgsnet.org/data-sources-plus-implications-practice-and-research-doctoral-initiative-minority-attrition-and>), 2016.
 11. R. G. Tull, D. L. Tull, **S. Hester**, A. M. Johnson. Dark Matters: Metaphorical Black Holes That Affect Ethnic Underrepresentation in Engineering. Paper presented at *2016 ASEE Annual Conference & Exposition*, New Orleans, Louisiana. 10.18260/p.26636
 12. **F. D. Carter-Johnson**, A. Byars-Winston, R. G. Tull, B. Zayas, and C. Padin. Hispanic Female STEM Faculty in Puerto Rico: Results from an NSF ADVANCE NETWORKing Workshop. *Journal of Women and Minorities in Science and Engineering*. Volume 22, No. 3. DOI: 10.1615/JWomenMinorScienEng.2016015372, pages 223-243, 2016.
 13. **A. M. Reed**, D. N. Williams, R. G. Tull, **D. A. Delaine**, and R. Sigamoney. Building Global Infrastructure for Diversity and Inclusion in Engineering Education. *2016 ASEE International Forum*. <https://peer.asee.org/27237>
 14. W. Y. Carter-Veale, R. G. Tull, J. C. Rutledge, **L. N. Joseph**. Doctoral Student Experiences using The Dissertation House Model: Coping and Writing in a Shared Knowledge Community. *CBE-Life Sciences Education*. Vol. 15 No. 3 ar34, 2016.
 15. **A. M. Reed** and R. G. Tull. Invitation to Engage: Approaches to Diversifying the STEM Professoriate. *14th LACCEI International Multi-Conference for Engineering, Education, and Technology: “Engineering Innovations for Global Sustainability”*, 20-22 Jul. 2016, San José, Costa Rica.
 16. **D. A. Delaine**, R. G. Tull, R. Sigamoney, and D. N. Williams. Global Diversity and Inclusion in Engineering Education: Developing Platforms toward Global Alignment. *International Journal of Engineering Pedagogy*, Vol. 6., No. 1, 2016.
 17. R. G. Tull. Holistic Professional Development for Graduate Students and Postdoctoral Fellows. In D. E. Chubin & A. L. DePass. (Eds.). *Translating Research, Impacting Practice* (vol. VII, pp. 63-66). *Summary of conf. presentation, 2015 Understanding Interventions that Broaden the Participation in Research Careers Conf.*, San Diego, CA. 2016.
- 2015:
18. **D. A. Delaine**, R. G. Tull, and D. N. Williams. Global Diversity in Engineering Education –

An Exploratory Analysis. *World Engineering Education Forum/International Conference on Interactive Collaborative Learning*, Sep. 2015, Triste, Italy.

19. **A. M. Reed** and R. G. Tull. Encouraging Equilibrium: Career-Life Balance Outreach and the Advancement of Women in Engineering, *13th LACCEI Annual International Conference: "Engineering Education Facing the Grand Challenges, What Are We Doing?"* Jul. 29-31, 2015, Santo Domingo, Dominican Republic.
20. **A. M. Reed** and R. G. Tull. Programmatic Interventions for Developing Diverse Global Eminent Faculty Scholars Through International Collaborations. *4th Annual ASEE International Forum*, 2015.
21. R. G. Tull and **M. Cortes-Rodriguez**. Starting Points for Involving Underrepresented Graduate Students in International Engagement: A Case Study on the Collaborations Between the University of Maryland Baltimore County (UMBC) and Educational Institutions in Latin America. *4th Annual ASEE International Forum*, 2015.
22. R. G. Tull. Broadening the Participation of U.S. Engineering Students and Faculty in International Engagement. *American Society for Engineering Education (ASEE) PRISM*. Mar./Apr. 2015.
23. **Q. Brown**, R. G. Tull, **L. Medina**, **M. Beadle-Holder**, and **Y. Medina**. Factoring Family Considerations into Female Faculty Choices for International Engagement in Engineering, IT, and Computer Science. *American Society for Engineering Education (ASEE)*, 2015.
24. R. G. Tull, **A. Y. Williams**, and **S. Hester**. An NSF AGEP Program's Unintended Effect on Broadening Participation: Transforming "Non-STEM" Graduate Students into Engineering Education Faculty, Researchers, K-12 Educators, and Advocates. *American Society for Engineering Education (ASEE)*, 2015.
25. **M. Cortes-Rodríguez**, **M. A. Nino**, and R. G. Tull. Desde la Licenciatura Hasta el Doctorado: Los Sistemas de Apoyos Para Estudiantes de Posgrado en Instituciones Fuera de Su País y Lejos de Casa. *Revista Cruce*, 2015.
- 2014:
 26. **P. Ordóñez**, **K. Krishnaswamy**, R. G. Tull, D. Ding, M. L. Goldberg. Assistive Technology Research as a Mechanism to Broaden the Participation of Women, Underrepresented Minorities, and Persons with Disabilities. *Proceedings of the 12th Latin American and Caribbean Conference for Engineering and Technology*, Guayaquil, Ecuador, Jul. 2014.
 27. **E. Aparakakankanange**, and R. G. Tull. An AGEP Program Analysis: Minority Graduate Student Diversity in STEM Disciplines at Three Universities. *Proceedings of the 17th International Conference on Interactive Collaborative Learning (ICL2014)/2014 World Engineering Education Forum*, Dubai, United Arab Emirates, 2014.
 28. **M. Cortes-Rodríguez**, **M. A. Nino**, and R. G. Tull. Preparing for Global Leadership in STEM Fields: Working in an International Setting. *3rd American Association of Engineering Education International Forum*, ASEE, 2014.
 29. R. G. Tull, **M. A. Nino**, and **K. M. Holmes**. Building a Community of Practice Among Engineering Graduate Students to Foster Academic and Professional Success. *121st Annual Conference of the American Association of Engineering Education*. Paper #10524. ASEE, Indianapolis, Indiana, 2014.

30. R. G. Tull, **P. Ordóñez**, **F. Carter-Johnson**, B. Zayas, A. Byars-Winston, **M. Cortes-Rodriguez**. "The Jessica Effect: Valuing Cultural and Familial Connections to Broaden Success in Academe," *AAC&U Peer Review*, 2014.
31. R. G. Tull and W. Carter-Veale. Structured Interventions for Underrepresented Students and Faculty Members in STEM. In D. E. Chubin & A. L. DePass. (Eds.), *Understanding interventions that broaden participation in research careers: Intervening to Critical Mass (vol. V, pp. 29-32)*. Summary of conference presentation at the 2012 Understanding Interventions that Broaden the Participation in Research Careers conference. Baltimore, MD, May 2014.
- 2013:
32. R. G. Tull, **H. Medina**, J. Pearlman, M. R. Goldberg. An Emerging Impact from an Engineering Education Outreach Collaborative "Bridge" Program: Graduate Student Participation in Wheelchair Mobility Research for Mexico. *11th Latin American/Caribbean Conf. for Eng. Tech. (LACCEI 2013) "Innovation in Engineering, Technology and Education for Competitiveness and Prosperity."* Cancun, Mexico. Aug. 2013.
33. **F. D. Carter-Johnson**, **P. Ordóñez Rozo**, R. G. Tull, and **M. A. Nino**. Examining the Intersection of Graduate Student Funding, Mentoring, and Training as a Mechanism of Success for Peer Mentors and their Mentees. *120th Annual Conference of the American Association of Engineering Education, ASEE*, Atlanta, Georgia, 2013.
- 2012:
34. C. Imler and R. Tull. *Stem Tide of Grad Student Losses*. The Daily Record (Baltimore, Md.), Nov. 30, 2012, p. 19.
35. R. G. Tull, J. C. Rutledge, J. W. Warnick, and **F. D. Carter**. *PROMISE: Maryland's Alliance for Graduate Education and the Professoriate Enhances Recruitment and Retention of Underrepresented Minority Graduate Students*. *Academic Medicine*, 87:11, 2012.
36. R. G. Tull and D. L. Tull. *A Formula for Success*. *Optics and Photonic News*. September 2012.
37. R. G. Tull, **M. Nino**, and **N. Ramoutar**. *Preparing for Engineering and Other STEM Graduate/Post-Graduate Masters and Doctoral Programs*. Proceedings of the Tenth LACCEI Latin American and Caribbean Conference (LACCEI 2012), Megaprojects: Building Infrastructure by fostering engineering collaboration, efficient and effective integration and innovative planning, Jul. 23-27, 2012, Panama City, Panama.
38. **A. M. Reed** and R. G. Tull. *Reducing the Bottleneck ... Breaking the Bottle! Addressing the Recruitment of Postdocs through Best Practices of AGEP and ADVANCE Horizons Programs*. Proceedings of WEPAN 2012, Jun. 2012.
- 2011:
39. J. C. Rutledge, W. Y. Carter-Veale, and R. G. Tull, *Successful PhD Pathways to Advanced STEM Careers for Black Women* in *Beyond Stock Stories and Folktales: African Americans' Paths to STEM Fields*, Vol. 11., H. T. Frierson and W. F. Tate, Eds. United Kingdom: Emerald Group Publishing Ltd., 2011.
40. R. G. Tull, **G. C. Anglón**, and J. C. Rutledge. *Summer Success Institute: An Intervention to Ease Academic Transitions for STEM Graduate Students, Postdoctoral Fellows, and Faculty of Color*, Proceedings of 4th Annual Conference on Understanding Interventions that Broaden Participation in Research Careers," May 26-28, 2011 (Vanderbilt University).

- 2009: 41. R. G. Tull and **G. C. Anglón**, *Outdoor Community Building Retreats as Interventions to Improve Campus Climate for Graduate Students*, Proceedings of the 3rd Annual Conference on Understanding Interventions, Bethesda, MD, May 2009.
42. **J. K. Pollack**, A. Starr, and R. G. Tull, *PROFessors-in-training (PROF-it): Preparing Graduate Students for Teaching Opportunities*, Proceedings of the Best Practices in Graduate Student Recruitment and Retention Mini-Symposium, Northeastern Association of Graduate Schools Annual Meeting, Apr., 2009.
- 2008: 43. W. Carter, R. G. Tull, and J.C. Rutledge, *Dissertation House*, Proceedings of the Best Practices in Graduate Student Development Mini-Symposium, Northeastern Association of Graduate Schools Annual Meeting, Apr., 2008.
- 2006: 44. R. G. Tull, *“Extending Expectations of Excellence: A Multi-ethnic Recruitment and Retention Guide for West Chester University's Graduate Programs of Study”*, (unpublished manual), Apr., 2006.
- 2003: 45. R. G. Tull, M. Jackson, and J. C. Rutledge, *“The PROMISE of a Better Graduate School Community”*, In Chemistry, Nov./Dec., 2003.
46. S. A. Bass, R. G. Tull, J. C. Rutledge, M. Jackson, and M. F. Summers, *Paving the Pathway to the Professions: Institutional Practices to Facilitate the Success of a Diverse Doctoral Student Population*, Journal of Higher Education Strategists, Vol. 1, No. 3, 2003.
- 1995: 47. R. G. Tull, *Communications Sciences TAs* in Norman, J.K. (ed.) *“Helping New TAs Teach Successfully: A Collection of Workshops for New Teaching Assistants”*. Vol. 1, Searle Center for Teaching Excellence, Northwestern University, Fall 1995.

PAPERS - SCIENCE, TECHNOLOGY, ENGINEERING

- 2001: 48. R. G. Tull, **E. Molin**, **M. Lindstedt**, and **J. Dykstra**, *Integrating Voice-Related Disabilities and Voice-Enabled Technologies*, Proceedings of AVIOS Conference on Speech Technology Applications, pg. 217-222, Apr. 2001.
49. R. G. Tull, **J. Dyskstra**, **M. Lindstedt**, and **E. Molin**, *Evaluating Consonant Errors in Speech Recognition Programs*, Journal of the Acoustical Society of America (JASA), Vol. 109, No. 5, Pt. 2, May 2001.
- 2000: 50. **J. Dykstra**, **M. Lindstedt**, **E. Molin**, and R. G. Tull, *Assessment of Speech Recognition Software*, STL Working Papers, Dec. 15, 2000 (unpublished).
51. **P. Y. Chung** and R. G. Tull, *Alternative and Augmentative Communication Devices: A Preliminary report on companies who sell them and the inadequate information/research provided for potential buyers and current clients*, STL Working Papers, Dec. 15, 2000 (unpublished).
52. R. G. Tull and **N. Mizelle**, *Toward Determining Factors of Speech Technology Avoidance (STA)*, The ASHA Leader, American Speech and Hearing Association, Vol. 5, No. 16. 160Bd12, pg. 95, Aug. 29, 2000.
53. P. Brown and R. G. Tull, *Improving Spoken English of Deaf Speakers Using Automatic Speech Recognition*, The ASHA Leader, American Speech and Hearing Association, Vol. 5,

No. 16, 88Bd10, pg. 82, Aug. 29, 2000.

54. **P. Y. Chung** and R. G. Tull, *Technology Use among Teens and Young Adults with Autism and Related Disabilities*, ASHA Augmentative and Alternative Communication SID 12 Newsletter, Aug. 2000.
55. P. Brown, R. G. Tull, **J. Dykstra**, **M. Lindstedt**, and **E. Molin**, *Deaf Talkers and Automatic Speech Recognition Performance Errors: An Analysis Report*, UW-Madison Speech Technology Lab Working Papers, Results reported and acknowledged in presentation: *Spoken Communication Assessment and Instruction using Automatic Speech Recognition Technology*, International Congress on Education of the Deaf, Sydney, Australia, Jul. 2000.
56. R. G. Tull, *Pathologies Not Included: Survey of Pre-Millennium Speech Recognition Software*, Acoustical Society of America, Spring Meeting Proceedings, Atlanta, GA., May 2000.
- 1996: 57. R. G. Tull, J. C. Rutledge, and C. R. Larson, *Cepstral Analysis of 'Cold-Speech' for speaker recognition: A Second Look*, Journal of the Acoustical Society of America (JASA), Vol. 100, No. 4, Pt. 2, 4aSC23, Oct. 1996.
58. R. G. Tull, J. C. Rutledge, *Analysis of 'Cold-Affected' Speech for inclusion in speaker recognition systems*, Journal of the Acoustical Society of America, Vol. 99, No. 4, Pt.2, 4aSC20, Apr. 1996.
- 1995: 59. R.G. Tull, J. C. Rutledge, J.J. Mahlar, *Female Alaryngeal Speech Enhancement for improved Speaker Identification Using Linear Predictive Synthesis*, JASA, Vol. 97, No.5, Pt.2, 1aSC28, May 1995
- 1994: 60. R. G. Tull, Q. Lin, C. W. Che, J. C. Rutledge, *Cepstral Analysis of Speaker Variability*, WORKING REPORT (unpublished), CAIP Center, Rutgers University, Piscataway, NJ, Sep. 1994.
61. R. G. Tull, J. C. Rutledge, *Explorations in Pitch Enhancement of the Alaryngeal Female Voice Using Linear Predicative Synthesis*, Proceedings of the E&A '94 Annual Symposium, Vol. 2, Mar. 1994.
- 1993: 62. R. G. Tull, J. C. Rutledge, *Linear Predicative Synthesis of Vowels for Pitch Enhancement of Female Geriatric Esophageal Speech*, Proceedings of the 15th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Vol. 3, Oct. 1993.
- 1991: 63. R. L. Garrison, *Face to Face: Three-dimensional Real-time Video Communication*, Proceedings of the 8th Annual National Technical Association Student Symposium – NASA Langley, VA, Apr. 1991 (v. 3);
64. --- Proceedings of the 1st Annual EE Symposium, Howard Univ., Wash. DC, Apr. 1991 (v.2);
65. --- Proceedings of the 2nd Annual IEEE Symposium on CSA, Expert Systems and ASIC VLSI Design, Vol. 1, Greensboro, NC, Mar. 1991 (v. 1);
- 1990: 66. *Technology Trends in Telecommunications*, Howard Engineer Magazine, Fall 1990

SELECTED PRESENTATIONS AND WORKSHOPS

PRESENTATIONS: HIGHER EDUCATION – STUDENT & FACULTY RECRUITMENT & RETENTION (Audience: Faculty, Administrators)

- 2018:
1. *From Expectation to Motivation: The PROMISE AGEP's Summer Success Institute provides an alternative space to transition students to professional careers*, National AGEP Conference, Berkeley, CA, (with Erika Aparaka – first author, and Janet Rutledge; presented by Janet Rutledge) March. 16, 2018.
 2. *Using Alternative Space and a Psychological Sense of Community within Underrepresented Minority Student Professional Development to Aid Student Retention and Reduce Attrition*, Understanding Interventions Conference, Baltimore, MD, (with Erika Aparaka and Denise Williams; presented by Erika Aparaka - first author) March 3, 2018.
- 2017:
3. *Engaging Diverse Inter-Institutional Networks of Students, Faculty, and Administrators with Humanitarian Engineering Initiatives*, World Engineering Education Forum, Kuala Lumpur, Malaysia, Nov. 14, 2017.
 4. *Mentoring Graduate Students of Color: Strategies for Increasing the Participation, Retention, and Success of Underrepresented Minorities in STEM* (Invited), Southern Regional Education Board Institute for Teaching and Mentoring, Atlanta, GA, Oct. 28, 2017.
 5. *Dark Matters: A Look at "Black Holes" as a Metaphor for Mitigating Risk and Increasing STEM Student Success*, ABRCMS, Phoenix, AZ, Oct. 27, 2017.
 6. *Women of Color: ImpACTing STEM's Past, Present, and Future – Keynote Panel* (Invited), Women in Engineering Empowerment Network (WEPAN) Change Leader Forum, Westminster, CO, Jun. 13, 2017.
 7. *Successful Outcomes of Effective Mentoring* (Invited), Fellowship Roundtable, National Academies of Sciences, Engineering, and Medicine, Washington, DC, May 5, 2017.
 8. *A More Worldly Graduate: How to Engage Your Students Globally* (Invited), ABET Symposium, Baltimore, MD, Apr. 21, 2017.
 9. *Dark Matters and Black Holes: A Discussion on Retention and Diversity in STEM* (Invited, with Damon Tull), Discussion Den - ABET Symposium, Baltimore, MD, Apr. 21, 2017.
 10. *Women's Empowerment in the Engineering World* (Panelist, Invited by UNESCO), United Nations Headquarters, NY, Side Event for the 61st Session on the Committee on the Status of Women. Mar. 13, 2017.
 11. *Serving the Underserved through Public and Private Partnerships* (Invited). STEMConnector Higher Education Council Meeting, Deloitte. Rosslyn, VA. Mar. 16, 2017.
 12. *Social Media for STEM Inclusion* (Invited Keynote). Understanding Interventions Conference, San Antonio, TX, Mar. 5, 2017.

- 2016:
13. *Inclusive Engagement – Engineering for All* - Special Session for the 2016 World Engineering Education Forum & Global Engineering Deans Council. Seoul, Korea, (Convener and Chair), Nov. 8, 2016.
 14. *Valuing People from All Groups* – Intergenerational Panel, World Engineering Education Forum & Global Engineering Deans Council. Seoul, Korea, (Invited), Nov. 7, 2016.
 15. *A Voice for the Voiceless: Why You and Your Research Matter for Civility, Science, and Social Justice*, McNair Conf., Florida International Univ. (Invited), Miami, Oct. 20, 2016.
 16. *Why Your Life Matters: Reflections from a STEM Perspective* – Meyerhoff Adaptation Project (UMBC, University of North Carolina Chapel Hill, Pennsylvania State University), UMBC, Jul. 20, 2016.
 17. *Dark Matters: Metaphorical Black Holes that Affect Underrepresentation in Engineering*. 123rd Annual Conference of the American Society for Engineering Education, New Orleans, Louisiana, Jun. 27, 2016 (with Damon L. Tull).
 18. *The Jessica Effect: Valuing Cultural and Familial Connections to Broaden Success in Academe*. (Invited by AAAS) Pacific Sciences Congress, Taipei, Taiwan, Jun. 9, 2016.
 19. *The Essence of Community: Creating Counter Spaces: Establishing a Supportive Community for Students of Color Where None Exist* (Invited). Diversity Forum, Vanderbilt University, Jun. 7, 2016.
 20. *Mentoring Generations of Global STEM Professionals* (Invited) Diversity Forum, Vanderbilt University, Jun. 6, 2016.
 21. *The Jessica Effect: The Importance of Invitations to Engage*. (Invited, sponsor: NSF). Gender Summit GS8. Mexico City, Mexico, Apr. 29, 2016.
 22. *Developing STEM-Based Global Experiences for Underrepresented Researchers at the Undergraduate and Graduate Levels*. (Invited, sponsor: NSF). International Mentoring Symposium, Stillwater, OK. Apr. 17, 2016.
 23. *Global Experiences & Diversity in Engineering. Why? Who? Where? What's going on there and why should we care?* (Invited). [Track - Diversity and Inclusion: A Global Perspective] 2016 ABET (Engineering Accreditation) Symposium, Hollywood, FL, Apr. 15, 2016.
 24. *#THINKBIGDIVERSITY: A Hacking Intervention for Graduate Student Retention*. (Deeper Dive: With Yara Medina, Amanda Lo, and Shawnisha Hester). Understanding Interventions that Broaden Participation in Science Careers (UI 2016). Philadelphia, PA. Feb. 27, 2016.
 25. *PROMISE AGEP: Maryland Transformation: Promising Models to Promote STEM Research Careers by Multi-Institution, Multi-Disciplinary Alliances Funded by the NSF's Graduate Education and the Professoriate-Transformation (AGEP-T) Program*. Understanding Interventions that Broaden Participation in Science Careers. Phila., PA. Feb. 27, 2016.
 26. *The Jessica Effect: Cultural Knowledge & Competency for Mentoring Underrepresented Students in STEM* (Invited). The University of Pittsburgh, Feb. 15, 2016.

27. *Sharing Diversity: A U.S. Perspective*. (Invited Plenary Panel, sponsor: Airbus Corporation). International Conference on Transformations in Engineering Education. Pune, India. Jan. 11, 2016.
- 2015:
28. *PROMISE International: A Global STEM Diversity & Inclusion Initiative*. Global Engineering Deans Council/Airbus Diversity Award Finalist Presentation. (Invited, sponsor: Airbus Corporation). Adelaide, Australia. Nov. 30, 2015.
29. *Solving for S: A Formula for Academic Success*. (Invited), Annual Biomedical Research Conference for Minority Students, Seattle, WA, Nov. 13, 2015.
30. *Beyond the Next Level ... The Road to Nobel*. Next Generation STEM Learning for All: A Forum Supported by the NSF. Washington, DC, Nov. 9, 2015.
31. *Diversity & Inclusion in Global Engineering Education – Initializing Global Scale Collaboration*. Special Session (Co-chair with David DeLaine and Darryl Williams), World Engineering Education Forum, Triste, Italy. Sep. 21, 2015.
32. *Women of Color in the USA and Ways of Connecting to Global Engagement – Special Session on Gender Diversity*, World Engineering Ed. Forum, Triste, Italy. Sep. 22, 2015.
33. *Think Big! Broadening Horizons for Women in Engineering and Computer Science through Global Scholar Networks*, WEPAN 2015 Change Leader Forum: Roadmap to Inclusion, Engineering Jun. 11, 2015.
34. *Collaborations and Workshops Toward Building a Productive Network of Hispanic Women in STEM* (Collaborators: Beatriz Zayas (lead), Carlos Padin, and Angela Byars-Winston). ADVANCE-Assoc. of Women in Science (AWIS) Conf., Balt., MD, Jun. 8, 2015.
35. *Addressing the Intersectionality of Underrepresentation and STEM Identity Through Holistic Professional Development for Graduate Students and Postdocs*, with Shawnisha Hester, Amanda Lo, Piyush Waradpande, and Yarazeth Medina. 7th Understanding Interventions Conference, San Diego, CA. May 16, 2015
36. *How Global Opportunities 'Strengthen the STEM Identity' of Women, Underrepresented Minorities, and People with Disabilities*, ABET Symposium (accreditation board for applied science, computing, engineering, and eng. tech.), Atlanta, GA. Apr. 24, 2015.
37. *Broadening Participation in Engineering: Contributions and Considerations*, National Science Foundation, Arlington, VA, Mar. 17, 2015.
38. *Career-Life Balance: "On Ramps" to Full Professor: Institutional Support for Post-Family Leave Faculty Research Reintegration [UMBC's CLB Initiative]*, NSF Quality Education for Minorities (NSF-QEM) National Workshop, Baltimore, MD, Mar. 6, 2015.
39. *The Jessica Effect: Applying Cultural Knowledge and Competency to Mentoring Approaches for Minority Students*, 3rd Annual Women in Science Seminar (Invited Keynote), Florida International University, Miami, FL, Mar. 4, 2015.
- 2014:
40. *Curating Your Digital Footprint* (Panel with Theodosia Gougousi, Jennie Leach, and Christine Mallinson), Faculty ADVANCEment Workshop, UMBC, Feb. 23, 2014.

41. *Professional Development and Mentoring Interventions for Graduate Student Success* (Invited), Oregon State University Forum, Corvallis, Oregon, Nov. 24, 2014.
42. *Transforming Maryland: STEM Diversity Inclusion and Excellence* (University System of Maryland STEM Deans Advisory Council), College Park, Maryland, Nov. 21, 2014
43. *PROMISE: Maryland's AGEP-T: Centralization, Signature Programming, Social Media, Structure, and Stories* (Advisory Board Presentation), Tuskegee, Alabama, Nov. 20, 2014.
44. *The Jessica Effect: Mentoring with Attention to Culture and Family, as a Mechanism for Graduate School Retention* (Invited), Annual Biomedical Research Conference for Minority Students, San Antonio, TX, Nov. 14, 2014
45. *Recruiting and Marketing: PROMISE & Diversity - Social Media and Web Presence* (Advisory Board Presentation), University of Montana – PNW COSMOS Meeting [Idaho, Washington, Montana], Missoula, Montana, Nov. 8, 2014.
46. *Faculty Session II: Mentoring Graduate Students of Color* (Invited, w/Dr. C. Grant), Southern Reg. Ed. Board (SREB) Institute on Teaching/Mentoring, Atl, GA., Nov. 1, 2014.
47. *Mentoring vs Advising and Assessing Campus Climates* (Invited), Fellowship Roundtable, The American Society for Microbiology, Washington, DC. Sep. 12, 2014.
48. *Women in STEM: Conversations in the Caribbean and Latin America* (Invited to lead panel by LACCEI Executive Director), Un Foro: Mujeres en STEM y Diversidad, Broadening the STEM Research Participation of Women, Underrepresented Minorities, and Persons with Disabilities, 2014 Latin and Caribbean Consortium of Engineering Institutions (LACCEI) conference and Organization of American States Encuentro Programs, Guayaquil, Ecuador, Jul. 23, 2014.
49. *Bringing Women in STEM to the Table* (Invited plenary, with Jose Carlos Quadrado and Maria Larrondo Petrie), 3rd International Forum of the American Association of Engineering Education, Indianapolis, Indiana, June 14, 2014.
50. *Training Graduate Students and Postdoctoral Fellows for Tenure* (poster, w/Nandadevi Cortes Rodriguez, Judith Kadarusman Pollack), 6th Annual Conf. on Understanding Interventions that Broaden Participation in Research Careers, May 17, 2014.
51. *Advancing Hispanic Women in STEM: Partnership and Progress* (Invited keynote), ADVANCE Meeting of Deans, Presidents, and Chancellors of Puerto Rico (University of Puerto Rico System, Ana G. Mendez University System, Interamerican University System, and independent universities in Puerto Rico), San Juan, Puerto Rico, Mar. 7, 2014.
52. *International Conversations: Summary discussions of "Un Foro de Mujeres en STEM" and "Mujeres Participando en STEM" LACCEI 2013 (Mexico) & WEEF 2013 (Colombia)*, ADVANCE Hispanic Women in STEM, Workshop II, San Juan, Puerto Rico, Mar. 6, 2014.
53. *PROMISE AGEP: Maryland Transformation, A New AGEP-T*, Kick-off Ceremony and Meeting of University System of Maryland Graduate Deans and STEM Deans, PROMISE Research Symposium and Professional Development Conference, College Park, Maryland, Feb. 28, 2014.
54. *Mentored Pathways to Promotion/Tenure* (Invited), 12th Annual Meeting of the National

Science Foundation's ADVANCE Program, Alexandria, VA, March 3, 2014.

- 2013:
55. *Mentoring Graduate Students of Color* (Invited panel with Christine Grant), SREB Compact for Faculty Diversity, 20th Annual Institute on Teaching and Mentoring, Alexandria, Virginia, Nov. 2, 2013.
 56. *Effective Mentoring for Professional Development and Tenure* (Invited panel with Gail Smith and Tom Rochon), Jr. Faculty Professional Conf., SREB Compact for Faculty Diversity, 20th Annual Institute on Teaching & Mentoring, Alexandria, VA, Nov. 1, 2013.
 57. *Partnership to Advance Hispanic Women STEM Faculty: UMET & UMBC* (with Beatriz Zayas, Carlos Padin, and Molly Hardigree). 27th Annual Conference of the Hispanic Association of Colleges and Universities (HACU), Chicago, Illinois, Oct. 27, 2013.
 58. *Conversatorio: Mujeres participando en STEM / Discussion: Engaging women in STEM* (w/ Maria Larrondo Petrie), World Eng. Ed. Forum (WEEF), Cartagena, Col., Sept. 26, 2013.
 59. *Mujeres en STEM (Women in STEM Forum)*, Latin and Caribbean Consortium of Engineering Institutions (LACCEI), Cancun, Mexico, Aug. 16, 2013.
 60. *A Program Guide: Examples of Social Media & Graduate Retention*, Women in Engineering ProActive Network National Conf. (WEPAN), Atlanta, GA, Jun. 20, 2013.
 61. *Developing Holistic Support Systems for Minority Students* (Invited Panelist), U.S. News STEM Solutions Conference, Austin, TX, Jun. 18, 2013.
 62. *Minority recruitment and retention - PROMISE Program*, 5th Biennial Nat. Directors of Grad. Studies in Pharmacology & Physiology meeting, Fort Worth, Texas, Jun. 14, 2013.
 63. *Sharing STEM: Innovation, Entrepreneurship, and Community Engagement*, The Women in Public Service Project: Conflict Transformation Through Economic Development and Innovation, University of Massachusetts Lowell, Jun. 4, 2013.
 64. *Women of Color in STEM* (Invited Bullet Presentation), NSF ADVANCE PI Meeting, Alexandria, VA, Mar. 4, 2013.
 65. *The Art of Mentoring: Promising Practices, Proven Results* (Invited), Purdue Univ. College of Agriculture's Mentoring @Purdue (MAP) Kickoff, West Lafayette, IN, Jan. 30, 2013.
- 2012:
66. *Effective Mentoring* (Invited panel with Gail Smith and Tom Rochon), Junior Faculty Professional Conference, SREB Compact for Faculty Diversity, Institute on Teaching and Mentoring, Tampa, Florida, Oct. 27, 2012.
 67. *Potential and Pitfalls of Social Media/Networking in Recruiting and Retaining Graduate Students* (Invited), Sloan Directors' Meeting, SREB Compact for Faculty Diversity, Institute on Teaching and Mentoring, Tampa, Florida, Oct. 27, 2012.
 68. *Planning a Dissertation House: Examples from PROMISE: Maryland's AGEP* (Invited), Cornell University, Oct. 22, 2012.
 69. *A Program Guide to Social Media* (Invited, panel with Sara Hernandez, Fredrika Moser, Troy Bernier, and Onjale Scott), National Science Foundation HRD Joint Annual Meeting,

Washington, DC, Jun. 12, 2012.

70. *Diversifying the Faculty* (Invited), NSF ADVANCE Rising Tide Conference, Bangor, Maine, May 14, 2012.
71. *Structured Social Media Interventions Stimulate Retention and PhD Completion for Underrepresented Students in STEM* (W/ W. Carter-Veale), Understanding Interventions that Broaden Participation in Research Careers Conf., Balt., MD, May 12, 2012.
72. *Peer Mentoring and Graduate Funding: An Emerging Professional Development Intervention for Peer Mentors and their Mentees* (Presented by Primary Co-author Frances D. Carter, Co-author Patricia Ordóñez Rozo), Understanding Interventions that Broaden Participation in Research Careers Conference, Baltimore, MD, May 12, 2012.
73. *The Intersection of Race and Gender- Minority Women in Academia* (Invited, w/ KerryAnn O'Meara, Mahlet Mesfin; Mod.: Lydia Villa-Komaroff), Understanding Interventions that Broaden Participation in Research Careers Conf., Balt., MD, May 11, 2012.
- 2011:
 74. *Designing a Sustainable AGEP: Keeping the "PROMISE" Alive* (Invited), Texas Bridge Summit, University of Texas Arlington, Sept. 23, 2011.
 75. *Addressing Institutional Barriers in Broadening Participation of Women and Underrepresented Groups in Engineering Higher Education* (Invited, With Ashanti Johnson, DiOnetta Jones, and Sara Xayarath Hernández), Women in Engineering Program Advocates Network (WEPAN) Conference, Seattle, WA, Jun. 22, 2011.
 76. *AGEP Sustainability: An Example from UMBC* (Invited), NSF HRD Joint Annual Meeting, Washington, DC, Jun. 8, 2011.
 77. *Summer Success Institute: An Intervention to Ease Academic Transitions for STEM Graduate Students, Postdoctoral Fellows, and Faculty of Color* (W/ Gloria C. Anglón, Janet C. Rutledge), AAAS Conf. on Understanding Interventions, Nashville, TN, May 27, 2011.
 78. *Dissertation Coach: An Intervention Strategy for Ph.D. Completion in STEM* (With Wendy Carter-Veale and Janet Rutledge), AAAS Conference on Understanding Interventions, Nashville, TN, May 27, 2011.
 79. *Multicultural Training for Broadening Participation: Focus on Graduate Students* (Invited), Centers for Ocean Sciences Education Excellence (COSEE) Conference, Newport, Rhode Island, May 3, 2011.
 80. *Retention of Underrepresented Graduate Students*, NAGAP, Ft. Lauderdale, FL, (Invited, Presented by K. Jill Barr), Jan. 21, 2011.
- 2010:
 81. *Finding and Keeping Diverse Graduate Students: Considerations for Engineering Research Centers* (Invited). National Science Foundations' Annual National Meeting for the Engineering Research Centers (ERCs), Washington, DC, Dec. 2, 2010.
- 2009:
 82. *To Boldly Go: Paths to Non-Academic Careers*, Women in Astronomy & Space Science NASA Conf. on Meeting the Challenges of an Increasingly Diverse Workforce (Invited). (W/ Colleen Hartman, Laura Hildago, Kathleen Flint, Ron Polidan, and Orlando Figueroa),

http://wia2009.gsfc.nasa.gov/WIA2009_proceedings.pdf, Oct. 21-23, 2009, pp 114-115.

83. *How the PROMISE Program uses Facebook to Support Minority Ph.D Students*. Staff Development Workshop: Exploring Web 2.0 Tools. Campus-wide event, sponsored by the Department of Information Technology, UMBC, Apr. 24, 2009.
- 2008:
 84. *PROMISE: Maryland's AGEP. Successes in Recruitment and Retention of Underrepresented Graduate Students*, (With Wendy Y. Carter, Gloria C. Anglón, Johnetta G. Davis, Janet C. Rutledge, and Jordan E. Warnick), NSF/American Association for the Advancement of Science (AAAS) Capacity Building Meeting, Washington, DC, Sep. 2008
 85. *BD: The Road from LSAMP to Ph.D.*, (W/ Cynthia Hill, Tamara Hamilton, Rosemary Parker), Joint Annual Meeting, Human Resources Division, NSF, Wash., DC, Jun. 2008
 86. *Preparing Environments for Successful Underrepresented Graduate Student Recruitment and Retention*, Am. Assoc. of Physics Teachers Winter Conf., Baltimore, MD, Jan. 2008
- 2007:
 87. *Dissertation House – Facilitating the PROMISE*, (With Wendy Y. Carter, Gloria C. Anglón, Johnetta G. Davis, Janet C. Rutledge, and Jordan E. Warnick), Joint Annual Meeting, Human Resources Division, NSF, Washington, DC, Jul. 13, 2007
 88. *Broadening Participation of Underrepresented Ethnic Minorities to Increase the Pipeline of Trained U.S. Citizens in Areas of National Need* (Panel Moderator/Session Author), Northeastern Association of Graduate Schools Annual Meeting, Wash., DC, Mar. 2007
 89. *Institutionalizing Success for Underrepresented Graduate Students: Weaving PROMISE into the Fabric of the University*, IGERT-Institute for Broadening Participation Working Group Invitational, Nobleboro, Maine Mar. 13, 2007
- 2006:
 90. *PROMISE: Maryland's AGEP: Programming Yields Progression*, (With Janet C. Rutledge, Johnetta G. Davis, Jordan Warnick, Gloria Anglón, and LaTisha Jones), NSF AGEP Evaluation Capacity Building Meeting, San Juan, Puerto Rico, Jan. 27, 2006
 91. *PROMISE: Maryland's AGEP Research Symposia: An Annual Alliance-wide Event Merges Community Building, Mentoring, Professional Development, and Preparation for the Professoriate*, NSF AGEP Evaluation Meeting, San Juan, Puerto Rico, Feb. 1, 2007 (With Gloria C. Anglón, Johnetta G. Davis, Janet C. Rutledge, and Jordan E. Warnick)
 92. *MIRTHE, AGEP, & BD - Directed Graduate Student Recruitment, Retention, and Training*, Mid-Infrared Technologies for Health and the Environment (MIRTHE), NSF ERC Site Visit, Princeton University, Princeton, NJ, Nov. 14, 2006
 93. *From Ideas to Actions: Implementing Plans for Multi-ethnic Faculty Recruitment and Retention* (Keynote), Office of Social Equity Seminar, West Chester Univ., Oct. 5, 2006
 94. *Expecting and Achieving Excellence in Building a Multi-ethnic Graduate Student Population* (Keynote), Grad. Studies Diversity Conf., West Chester Univ., Apr. 21, 2006
 95. *The Changing World of Advising Graduate Students: Trends and Best Practices*, Northeastern Association of Graduate Schools Conference, Portsmouth, NH, Apr. 7, 2006
 96. *Retention and Progress to the Ph.D: Centralized Mentoring and Programming Encourages*

Students to Commit to Success, NSF AGEP Second Evaluation Capacity Building Meeting, San Juan, Puerto Rico, Jan. 27, 2006

- 2005:
- 97. *Graduate Student Involvement in MIRTHE: PROMISE: Maryland's AGEP and UMBC's Bridges to the Doctorate*, Mid-Infrared Technologies for Health and the Environment (MIRTHE), NSF Engineering Research Center Site Visit (Funded, 2006) Princeton University, Princeton, NJ, Nov. 15, 2005.
 - 98. *Tenure, Promotion, and Mentoring* (Panel: Renetta G. Tull, Marilyn Demorest, Patrice McDermott, and Katherine Seley Radtke), NSF UMBC ADVANCE Faculty Horizons Workshop for Aspiring STEM Faculty, Baltimore, MD, Jul. 16, 2005.
 - 99. *Community Building at Coolfont: PROMISE: Maryland's AGEP Achieves Retention of Underrepresented Ph.D. STEM Students Through an Alliance-Wide Weekend Retreat*, (With Janet C. Rutledge, Jordan Warnick, Johnetta G. Davis, and Jill Pegues) Joint Annual Meeting National Science Foundation, Washington, DC, Apr. 24, 2005.
 - 100. *Alliance-wide Mentoring: An Unexpected By-product of Centralized Programming in PROMISE: Maryland's AGEP* (poster) (With Janet C. Rutledge, Johnetta G. Davis, Jordan Warnick, and Jill Pegues) Joint Annual Meeting NSF, Washington, DC, Apr. 24, 2005.
 - 101. *An Inclusive Approach to Stimulating Underrepresented Ph.D. STEM Student Retention and Progression*, (With Janet C. Rutledge, and Scott A. Bass), 2nd Annual Bouchet Conference, Yale University, New Haven, CT, Apr. 2, 2005.
- 2004:
- 102. *PROMISE: Maryland's AGEP; Institutional Change via Holistic Approaches to Graduate Education*" (poster), NSF HRD PI Meeting, Crystal City, VA, Mar. 29, 2004.
 - 103. *Collective Responsibility: A Sample of Graduate School Alliances that Prepare Graduate Students of Color for the Professoriate*, NSBE Faculty Wrkshp., Dallas, TX, Mar. 18, 2004.
 - 104. *A New PROMISE in Maryland: A Profile of Maryland's AGEP* (poster), American Association for the Advancement of Science (AAAS) AGEP Evaluation Meeting, San Juan, Puerto Rico, Jan. 20, 2004.
 - 105. *Graduate Schools' PROMISE, Graduate Students' Success*, NAGS Annual Conference, Baltimore, MD, Apr. 16, 2004.

PRESENTATIONS: HIGHER EDUCATION – GRADUATE SCHOOL COMPLETION (Audience: Graduate Students/Ph.D. Candidates)

- 2017:
- 106. *Variables in the Success Equation*. Duke University NIH IMSD BioCore, Jul. 27, 2017.
- 2015:
- 107. *Considerations for Academic Careers: A Discussion with International Students* (with Arlene Wergin). UMBC International Students Career Conference, Apr. 3, 2015.
- 2012:
- 108. *The Success Equation*. PROMISE: Maryland's AGEP 10th Annual Summer Success Institute, Baltimore, MD, Aug. 17, 2012.
- 2011:
- 109. *The Mentor/Advisor Relationship*. Graduate Student Institute, Society of Professional

Hispanic Engineers (SHPE), Anaheim, California 2011.

- 2010: 110. *The Mentor/Advisor Relationship*. Graduate Student Institute, Society of Professional Hispanic Engineers (SHPE), Cincinnati, OH 2010.
- 2009: 111. *The Mentor/Advisor Relationship*. Graduate Student Institute, Society of Professional Hispanic Engineers (SHPE), Washington, DC 2009,
- 2008: 112. *Composing Elements of Your Graduate Student Life: PROJECT L.E.A.D.*, Future Faculty and Professionals Symposium, National GEM Consortium Conference, Washington, DC, Sep. 2008.
113. *Graduate Student Success: Beyond the Books*. Graduate Student Institute, Society for Professional Hispanic Engineers, Phoenix, Arizona, Nov. 2008.
- 2007: 114. *Composing Elements of Your Graduate Student Life: PROJECT L.E.A.D.*, Future Faculty & Professionals Symposium, National GEM Consortium Conf., Las Vegas, NV, Oct. 2007.
115. *Leading as You Learn: Optimizing the Graduate School Advisor-Advisee Relationship*, AHTEHMS Grad. Student Conf., Society for Prof. Hispanic Eng., Denver, CO, Jan. 2007.
- 2006: 116. Mentoring vs. Advising, and Assessing Campus Climates, Alliance for Graduate Education in Mississippi (AGEM) Conference, Hattiesburg, Mississippi, Jan. 20, 2006.
117. The Importance of Being a Good Citizen in Your Ph.D. Department: Graduate School Politics and its Effects on Your Successful Completion of the Ph.D., SHPE, Orlando, FL, Jan. 4, 2006.
- 2005: 118. Popularity in the Department, Emerge Conference, Georgia Institute of Technology, Atlanta, GA, Sep. 23, 2005.
119. Career Choices and Transitions, (With Michael Smith, Johny Green Jr., and Eric Sheppard), 7th Annual Future Faculty Professional Symposium, National GEM Consortium Conference, Boston, MA, Jul. 1, 2005.

PRESENTATIONS: HIGHER EDUCATION - GRADUATE SCHOOL PREPARATION (Audience: Undergraduate Students)

- 2016: 120. Mobility & International Engagement: Being Engaged in STEM on a Global Level, FLEEI: Foro Latinoamericano de Estudiantes sobre Educación en Ingeniería, Costa Rica, Jul. 18, 2016
- 2014: 121. Preparing for Graduate Study, FLEEI: Foro Latinoamericano de Estudiantes sobre Educación en Ingeniería, Escuela Superior Politécnica del Litoral (ESPOL), Guayaquil, Ecuador, Jul. 21, 2014
- 2013: 122. Engineering My Path: The Success Equation as a Framework for Leadership. The National Society of Black Engineers Regional Leadership Conference, Region II (Pennsylvania –

South Carolina), College Park, MD, Aug. 24, 2013.

2012: 123. The Success Equation, (Invited, with Damon Tull). Department of Computer Science, University of Puerto Rico Río Piedras, San Juan, Puerto Rico, Oct. 1, 2012

Presentations For Universidad Metropolitana: *Model Institutions of Excellence Research Symposium, San Juan, Puerto Rico*

2014: 124. Panel Leader, Sep. 2010, 2011, 2012, 2013, 2014

2012: 125. Una Ecuación Para el Éxito, Sep. 2012

2011: 126. Luchen por Sus Sueños, Sep. 2011

2009: 127. Taller Para Escuela Graduada, Jan. 2009

2008: 128. Preparation for Success, Sep. 2008

2006: 129. A Path to Leadership (Keynote), Sep. 16, 2006

2004: 130. Visualize Your Future with a Ph.D., (Keynote), Dec. 2004

131. Know What Graduate Schools are Looking For, Oct. 2004

Presentations - FOR National GEM Consortium: *Preparing and Applying for Graduate School, Getting Ready for Advanced Degrees (GRAD) Lab, and other programs.*

2018: 132. GEM Grad Lab "Tour" – Maryland and Florida, Spring 2018

2017: 133. GEM Grad Lab "Tour" – Salt Lake City, Utah & Minneapolis, MN, Fall 2017

134. GEM National Conference Speaker – "Composing Your Graduate Student Life," – New York, Sep. 7, 2017

2015: 135. GEM GRAD Lab "Tour" – Stony Brook, NY, Fall 2015

136. GEM GRAD Lab "Tour" - Philadelphia, Fall 2015

137. GEM GRAD Lab "Tour" - Illinois, Fall 2015

138. GEM GRAD Lab "Tour" - Iowa, Fall 2015

139. GEM GRAD Lab "Tour" - California, Spring 2015

2014: 140. SHPE 2014 (Detroit, MI)

141. GEM GRAD Lab "Tour" - Texas, Fall 2014

142. GEM GRAD Lab "Tour" - Florida, Fall 2014
143. GEM GRAD Lab "Tour" - New Mexico, Fall 2014
144. GEM GRAD Lab "Tour" - Illinois, Fall 2014
145. GEM GRAD Lab "Tour" - NJ, Fall 2014
146. GEM GRAD Lab "Tour" - Massachusetts, Fall 2014
147. National Society of Black Engineers Annual Conference, Nashville, TN, Mar. 2014
- 2013:
 148. GEM GRAD Lab "Tour" - Puerto Rico, Fall 2013
 149. GEM GRAD Lab "Tour" - Florida, Fall 2013
 150. GEM GRAD Lab "Tour" - Minnesota, Fall 2013
 151. GEM GRAD Lab "Tour" - NY, Fall 2013
 152. GEM GRAD Lab "Tour" - Indiana, Fall 2013
 153. National Society of Black Engineers Annual Conference, Indianapolis, IN, Mar. 2013
- 2012:
 154. AISES Nov. 2012 (Anchorage, Alaska)
 155. SHPE 2012 (Fort Worth, TX)
 156. GEM GRAD Lab "Tour" - Pittsburgh, Mar. 2012
 157. GEM GRAD Lab "Tour" - San Francisco, Aug. 2012
 158. National Society of Black Engineers Annual Conference, Pittsburgh, PA, Mar. 2012
- 2011:
 159. AISES Nov. 2011 (Minneapolis, MN)
 160. SHPE 2011(Anaheim, CA)
 161. GEM GRAD Lab "Tour" - New Jersey, Fall 2011
 162. GEM GRAD Lab "Tour" - California, Fall 2011
 163. GEM GRAD Lab "Tour" - Minnesota, Fall 2011
 164. National Society of Black Engineers Annual Conference, Saint Louis, MO, Mar. 2011
- 2010:
 165. SHPE 2010 (Cincinnati, OH)
 166. AISES Nov. 2010 (Albuquerque, NM)
 167. GEM GRAD Lab "Tour" - New York, Fall 2010
 168. GEM GRAD Lab "Tour" - Puerto Rico, Fall 2010

- 169. GEM GRAD Lab "Tour" - Ohio, Fall 2010
- 170. GEM GRAD Lab "Tour" - Massachusetts, Fall 2010
- 171. GEM GRAD Lab "Tour" - New Mexico, Fall 2010.
- 2009: 172. SHPE 2009 (Washington, DC)
- 173. HBCU-UP Historically Black Colleges and Universities National Science Foundation Conference, Washington, DC, 2009
- 2008: 174. SHPE: Nov. 2008 (Phoenix, AZ)
- 175. National GEM Conference, Washington D.C., Sep. 2008
- 176. Society for Hispanic Professional Engineers (SHPE), Arlington, VA, Feb. 2008
- 2007: 177. National Society of Black Engineers Annual Conference, Columbus, OH, Mar. 2007
- 178. National GEM Conference, Las Vegas, NV, Oct. 2007
- 179. American Indian Science and Engineering Society (AISES), Nov. 2007 (Phoenix, AZ)

Topics covered: Letters of Recommendation, Statement of Purpose, Graduate Record Exam (GRE)

Presentations - FOR MIT: Office of Graduate Education, Massachusetts Institute of Technology, Cambridge, MA

- 2017: 180. *Establishing a Professional Online Presence*, Jun. 2017
- 2015: 181. *A Formula for Academic Success*, Jun. 2015
- 2014: 182. *Between the Lines, 25 (Unwritten) Rules for Success*, Jun. 2014
- 2013: 183. *Navigating Research Success*, Jun. 2013
- 2012: 184. *The Success Equation*, Jun. 2012
- 2011: 185. *Maximizing and Leveraging the Research Experience*, Summer Series, Jun. 2011
- 2010: 186. *Maximizing and Leveraging the Research Experience*, Summer Series, Jun. 2010
- 2009: 187. *Maximizing and Leveraging the Research Experience*, Summer Series, Jun. 2009
- 2008: 188. *Prepare for Graduate School: Optimizing Your Summer Research Experience*, MSRP Summer Series, Jun. 10, 2008

- 2007: 189. *Leveraging Your Undergraduate Experience for Graduate School Success*, MSRP Summer Series, MIT, Jul. 16, 2007
- 2006: 190. *Your Preparation for the GRE*, MSRP Summer Series, MIT, Jul. 11, 2006

Presentations - FOR CORNELL: College of Engineering, Cornell University, Ithaca, NY

- 2012: 191. *How to Apply to Graduate School*, Oct. 2012
- 2011: 192. *Developing Competitive Applications for Graduate School*, Nov. 2009, Nov. 2010, Oct. 2011
- 2008: 193. *Understanding the GRE*, Cornell University, College of Engineering, Nov. 6, 2008
- 2007: 194. *Tools for Graduate School and Understanding the GRE*, Cornell University, College of Engineering, Nov. 14, 2007
195. *Master Keys for Understanding the GRE*, Cornell University College of Engineering, Apr. 25, 2007

Presentations FOR NSBE: National Society of Black Engineers National Conference (not related to GEM)

- 2006: 196. *AGEP & IGERT: Supporting and Funding Your Graduate Education*, with S. Thomas, Pittsburgh, PA, March 20, 2006.
- 2005: 197. *Graduate School 101: An Introduction to Preparing COMPETITIVE Applications*, Boston, MA, Mar. 2005.
- 1995: 198. *Preparing for Leadership*, NSBE National Leadership Institute, North Carolina State University, Jun. 1995.

Presentations - FOR SHPE: Society of Hispanic Professional Engineers National Conference (presentations not related to GEM)

- 2006: 199. *Confidently Developing Competitive Graduate School Applications*, Orlando, FL, Jan. 6, 2006
- 2005: 200. *How to Prepare a Competitive Graduate School Application*, Dallas, TX, Jan. 2005

Presentations - FOR AISES: American Indian Science and Engineering Society (Presentations not related to GEM)

- 2007: 201. *Preparing for Graduate School: Understanding the GRE*, Phoenix, AZ, Nov. 3, 2007

- 2006: 202. *An Introduction to the GRE*, Charlotte, NC, Nov. 2005
- 2005: 203. *Understanding Both the Current and the 'New' GRE*, American Indian Science and Engineering Society Conference, Detroit, MI, Nov. 4, 2006
204. *Understanding Both the Current and the 'New' GRE*, National Institutes of Health, Fellowship Program, Dec. 13, 2006

Presentations - FOR UNIVERSITIES IN MARYLAND AND VIRGINIA

- 2010-present 205. *Elements of the Graduate School Application*, Summer Horizons Program, MD
- 2010: 206. *Applying to Graduate School (Invited Presentations)*, UMBC, University of Maryland College Park, NSF, Summer 2010
- 2008: 207. *Understanding the GRE*, Cornell University, College of Engineering, Nov. 6, 2008
- 2006: 208. *Preparing for the New (Revised) GRE*, Graduate Horizons Conf., UMBC, Oct. 20, 2006
209. *Preparing for the Current and the New/Revised GRE*, University of Maryland College Park, Oct. 6, 2006
- 2005: 210. *Tools for Doing Well on the GRE*, UMBC Graduate Horizons, Baltimore, MD, Oct. 29, 2005
211. *Elements of the Graduate School Application*, UMBC Graduate School Fair, Baltimore, MD, Oct. 19, 2005
212. *Strategies for Taking the GRE*, University of Maryland, College Park, MD, Oct. 7, 2005
- 2004: 213. *In Pursuit of the Professoriate*, Hampton University, Hampton, VA, Nov. 2004
214. *Expand Your HORIZON, Conquer the GRE*, Fall Horizons, UMBC, Baltimore, MD, Oct. 2004
215. *McNair Scholars, You WILL Score Well on the GRE*, McNair Conf., UMBC, Sep. 2004

Presentations - RETREATS FOR FACULTY MENTORS AND STUDENT SCHOLARS:

- 2017 216. *Invited Keynote Speaker*, NIH IMSD Meyerhoff Graduate Biomedical Fellows Prog. (WVA)
- 2017 217. *Invited Speaker*, University of Pittsburgh AGEP - Pitt STRIVE (West Virginia),
- 2007 218. University of Maryland School of Pharmacy, Invited Speaker
- 2004-2010 219. *Organizer, Speaker*. PROMISE AGEP (Berkeley Springs WV, Cumberland Maryland)

LEADERSHIP AND ENGAGEMENT

INTERNATIONAL ENGAGEMENT

- 2017: *Invited Plenary Panelist.* 20th Colloquium on International Engineering Education, Nov. 2017
- Invited Speaker.* Grand Challenges Special Session: Exploring Grand Challenges & UN Sustainable Development Goals Alignment as Global Engineers, World Engineering Education Forum, **Malaysia**, Nov. 2017
- Elected Vice President of Initiatives.* Latin & Caribbean Consortium of Engineering Institutions (LACCEI), Jul., 2017
- Chair and Moderator.* “Women and Diversity in STEM” panel, Summit of Engineering for the Americas, Organization of American States/EftA at LACCEI XV Int. Multi-conference, 2017
- Interim Vice President of Initiatives (Interim).* Latin & Caribbean Consortium of Engineering Institutions (LACCEI), Feb. 2017
- Chair.* Organization of American States (OAS)/LACCEI “Women in STEM and Diversity Forum,” Summer 2017
- 2016: *Institutional Representative/Voting Member.* Latin & Caribbean Consortium of Engineering Institutions, 2016
- Chair,* Global Diversity and Inclusion in Engineering, international panel discussion (Turkey, France, Ecuador, Australia, U.S.), Global Engineering Deans Council/World Engineering Education Forum, Seoul, **Korea**, Fall 2016
- Session Lead.* “Mi Vida, Mi Trabajo: A Discussion on Career-Life Balance, Organization of American States/Engineering for the Americas Latin & Caribbean Consortium of Engineering Institutions (LACCEI), San Jose, **Costa Rica**, 2016
- Speaker and Discussion Leader.* Sessions for “The Jessica Effect” and issues surrounding engaging and supporting women in STEM. Mexico City, **Mexico**, 2016; Taipei, **Taiwan**, 2016
- International Advisory Committee Member.* Fourth International Conference on Transformations in Engineering Education (for ICTIEE 2017) – Hyderabad, Jaipur, and Rajkot, **India** – Planning activities in 2016
- Invited Plenary Panel Speaker.* (Invited on behalf of the Airbus/Global Engineering Deans Council Diversity Award Committee) - International Conference on Transformations in Engineering Education. Pune, **India**, 2016
- 2015: *Invited Speaker.* Conversations on global diversity and inclusion in STEM (Global Engineering Deans Forum), Adelaide, **Australia**, 2015
- Co-developer and Co-Chair.* Special Session on STEM Gender Diversity (w/ Jennifer DeBoer), World Engineering Education Forum (WEEF), Florence, **Italy**, 2015
- Invited Speaker.* Conversations on engaging women in STEM, LACCEI, **Dominican Republic**, 2015
- Co-developer.* Diversity and Inclusion in Global Engineering Education – Initializing Global Scale Collaboration (w/ David Delaine, Darryl Williams, and Rovani Sigamony), WEEF, **Italy**, 2015

- Collaborator*. Visiting Professor Program - Tecnológico de Monterrey – **Mexico**, 2015
- 2014: *Invited Speaker*. Women in Engineering, Partnerships, and Professional Development, Dubai, **United Arab Emirates**, WEEF 2014
- Session Leader and Developer*. Mujeres en STEM y Diversidad, Guayaquil, **Ecuador**, LACCEI 2014
- Collaborative meetings*: Escuela Superior Politécnica del Litoral (ESPOL), Guayaquil, **Ecuador**; Center for Interamerican Studies (CEDEI), Cuenca, **Ecuador**, Jan. 2014.
- 2013: *Rapporteur (Invited)*. International Gender Summit 3 – North America, Wash., DC, Nov. 2013.
- Session Co-Leader*. Mujeres Participando en STEM, WEEF, Cartagena, **Colombia**, Sep. 2013.
- Participant*. International Federation of Engineering Education Societies (IFEES) meeting, Cartagena, **Colombia**, 2013.
- Co-Chair*. Women in STEM Panel, Co-Leader “Mujeres en STEM” Working Group: Latin and Caribbean Consortium of Engineering Inst. (LACCEI), Quintana Roo, Cancun, **Mexico**, Aug. 2013

NATIONAL ENGAGEMENT

- 2017: *Social Media Consultant*. National GEM Consortium, American Society of Engineering Education Minorities in Engineering Division (MIND).
- National Science Foundation Committee of Visitors (COV)*, May 2017.
- ABET Program Evaluator (PEV) Training*. Engineering Accreditation Commission. Apr. 2017.
- Advisory Board Member*. Sloan Mentoring Network, 2017
- Committee Member*. GRE Board - Diversity, Equity, and Inclusion (DEI) Committee, 2017
- Speaker/Mentor*. Yale Ciencia Academy, 2017
- Consultant*. Advocating for Engineering through Hidden Curricula: A Multi-Institutional Mixed Method Approach, Utah State (lead), Polytechnic U. Puerto Rico, New Mexico State, Prairie View A&M, U of Texas San Antonio 2017
- 2016: *STEM Ambassador*. The White House (MBK STEM+, STEM Inclusion initiatives), 2015-2016.
- Evaluation Advisory Committee*. National Science Foundation’s AGEP-T –Northern Ohio (NOA Project), 2016 - present
- Advisory Board Member*. National Science Foundation’s AGEP-T – University of Pittsburgh (TDAE Project), 2016
- 2015: *Advisory Board Member*. National Science Foundation’s AGEP-T - Tuskegee Alliance to Forge Pathways to Academic Careers (T-PAC Project) - Alabama State University, Auburn University, Tuskegee University, 2015-present
- Contributor*. U. S. Government Accountability Office (GAO) Report on women’s representation in federal STEM research programs, commissioned by Representative Eddie Bernice Johnson, Ranking Member of the House Committee on Science, Space, and Technology, Research and

- Technology Subcommittee; Representative Louise M. Slaughter; and Representative Rosa DeLauro – 2015
- Featured:* Book – “Women in Data: Cutting-Edge Practitioners and Their Views on Critical Skills, Background, and Education.” Author: Cornelia Levy-Bencheton; O’Reilly Media, 2015.
- 2014: *Advisory Board Member.* National Science Foundation’s AGEP-T Pacific Northwest Collaborative Opportunities for Success in Mentoring of Students (PNW-COSMOS) for American Indian and Alaska Native Students, 2014-present
- Inaugural Advisory Committee.* Social Science Research Council/Alfred P. Sloan Scholars Mentoring Network, 2015
- Site Visit Team:* National Science Foundation, Directorate of Engineering, Engineering Research Centers
- 2013: *Reviewer.* Association of American Colleges and Universities (AACU), PKAL STEM initiatives, 2013
- 2012: *Participant,* “Seeking Solutions: Maximizing American Talent by Advancing Women of Color in Academia,” National Academy of Sciences. Comments on support and assistance for spouses of women faculty (beyond dual hire) captured on Jun. 7, 2012 for subgroup: “How Does Gender Bias Differ by Race and Ethnicity?”
- 2011: *Deeper Engagement Working Group,* Massachusetts Institute of Technology
- 2009: *Board Member At Large.* Northeastern Association of Graduate Schools (NAGS), Faculty Retention Committee; *Founding Chair,* NAGS Mini Symposia
- 2008: *Chair.* NAGS Best Practices Graduate Student Development Committee
- 2007: *Chair.* NAGS Faculty Diversity Awards Committee
- 2006 *Representative for Science, Technology, Engineering, and Math (STEM) Outreach:* Mid-Infrared Technologies for Health and the Environment - MIRTHE Engineering Research Center (Princeton, UMBC, CCNY, Texas A&M, and Rice University),
- Regional Liaison.* IGERT Institute for Broadening Participation, Universidad Metropolitana (Model Institutions of Excellence Program – Proyecto MIE)
- 2005: ETS GRE® Campus Educators Certificate
- 2004-present *Reviewer.* National Science Foundation panels and independent proposals
- 2001: *Moderator.* “VoiceXML – Experiences for Managers”, SpeechTek 2001
- Session Chair.* “Speech Recognition, Analysis, & Signal Processing”, Jun. 2001 (Posters), Acoustical Society of America
- Reviewer.* Journal of Speech and Hearing Research; A Course in Phonetics (P. Ladefoged, 3rd Edition)
- 1997: *Organizing Committee.* Conference on Vocal Physiology & Biomechanics - 1997
- 1996: *Staff:* Conference on Laboratory Phonology (LabPhon) - 1996
- 1993: *Member:* Eng. in Medicine & Biology Society, Institute of Electronic & Electrical Engineers (IEEE)

REGIONAL ENGAGEMENT: UNIVERSITY SYSTEM OF MARYLAND, HOWARD UNIVERSITY

- 2018-: *Chair*, STEMConnector, Representative for the UMBC President on the National Higher Education Board
- 2017: *Chair*, University System of Maryland Health Care Workforce Diversity Workgroup
Advisory Board, Bridges to the Baccalaureate, Towson University
- 2017: *Director (Int.)*. Center for the Integration of Research, Teaching, and Learning (CIRTL at UMBC)
Advisory Board Member, Grand Challenges Scholars Program, UMBC, 2017
- 2016-present *Leadership Team*. UMBC Center for the Integration of Research, Teaching, and Learning (CIRTL)
- 2014-present *Executive Committee*. Recruitment, Retention and Advancement of Underrepresented Minority Faculty, UMBC, Office of the Provost
Selection Committee. Postdoctoral Fellowship for Faculty Diversity, UMBC, Office of the Provost
- 2012-2014: *Selection Committee*. Hrabowski Fund for Innovation, UMBC, Office of the President
- 2008: *Search Committee Chair*. UMBC Graduate Student Association Exec. Director
Search Committee Chair. UMBC Coordinator of Interpreting Services for the Deaf
- 2003-2004: *Chair*. Alumni Advisory Board, Howard University, Department of Electrical and Computer Engineering
- 2002-present *Member*. Alumni Advisory Board, Howard University, Department of Electrical and Computer Engineering

PUBLIC ENGAGEMENT, COMMUNITY SERVICE AND MENTORING PROGRAM ACTIVITIES

- 2018 *Invited Panelist*, "Diversity, STEAM, & Comics," AWESOME CON, Washington, DC, March 31, 2018.
- 2018 *Moderator*, U.S. News & World Report's STEM Solutions: "Skills, Jobs, and the New Collar Economy," Keynote Panel, *Developing the Workforce of Tomorrow*. April 5, 2018.
- 2017: *Mentor*. National Institutes of Health – National Cancer Institute Diversity Career Development Program for postdoctoral trainees, 2017
- 2016: *Invited Keynote*. University of Maryland Baltimore CURE Scholars Program
- 2014-2017 *Speaker, Participant*. The Fellowship Roundtable, National Academy of Sciences, Engineering, & Medicine.
- 2016: *Moderator*. Life After the Ph.D.: MSRP Alumni at Work (MIT), 2016

- Judge.* Student Platform for Engineering Education Development (SPEED) India Regional Student Forums, College of Engineering Pune (CoEP), Pune, India, 2016
- 2009-2010: *Judge.* SHPE National Conference
- 2009 *Judge.* Society for the Advancement of Chicano and Native American Scientists (SACNAS)
- 2007-2014 *Workshop Panel Chair.* “Graduate School Orientation – Undergraduate Research Internships and Success & Survival in Academia.” Panelists from MIT, Norfolk State University, Georgia Tech, NASA, National Cancer Institute (NIH), The National Academies (The Ford Foundation), Baylor College of Medicine. Graduate Student Panelists from UMBC, Howard University, Arizona State, University of California-Irvine, Inter-American University, Universidad Metropolitana, XVIII Undergraduate Research Symposium, Ana G. Mendez System, San Juan, Puerto Rico (2007, 2009, 2010, 2012, 2013, 2014)
- 2004: *Session Co-facilitator.* “Effective Graduate Student Mentoring: A Research Priority”, UMBC
- 2004-2016: *Member.* Deaf Ministry, Mt. Pleasant Church and Ministries, Baltimore, MD
- 2003-2013: *Judge.* Undergraduate Research Symposium, Universidad Metropolitana, San Juan, Puerto Rico
- 2003: *Participant.* American Association for the Advancement of Science (AAAS) Workshop on Mentoring (2003)
- 2000: *Volunteer.* Staff Coordinator: Washington DC Technology Council
- 1999-2002: *Member.* Children’s Ministry Instructor - 2nd-4th grade Mt. Zion Baptist Church, Madison, WI
- 1991-1997: *Member.* Youth Action Ministry Council, Second Baptist Church, Evanston, IL (1991-1997)
- Ongoing Science and Engineering discussions with local high schools, community colleges, and summer programs (Baltimore, MD; Madison, WI)

ACKNOWLEDGEMENTS IN PUBLICATIONS

- Unsolicited acknowledgements in 20+ dissertations (Fields including but not limited to: Biology, mathematics, genetics, engineering, computer science, psychology, and higher education)
- Bacon, Jennifer N., *Sisters in the Dissertation House: A Dissertation Narrative*, New Forums Press, 2014
- Whitehead, Karsonya Wise, *Notes from a Colored Girl: The Civil War Pocket Diaries of Emilie Frances Davis*, University of South Carolina Press, 2014