

EDUCATION

Doctor of Philosophy, Engineering Education, Purdue University, West Lafayette, IN (2014)

- Dissertation: “*Multiple Case Study Analysis of Young Women’s Experiences in High School Engineering*”
- National Science Foundation Graduate Research Fellowship, 2011-2014 (\$30K/year)
- Purdue Ross Graduate Fellowship, 2009-2010

Master of Science, Electrical Engineering, Texas Tech University, Lubbock, TX (2007)

- Thesis: “*Permeation & Diffusion of Moisture through the Window Bondline Adhesive for the Digital Micromirror Device*”
- Program for Semiconductor Product Engineering Fellowship, 2006-2007, (\$9K/semester)

Bachelor of Science, Computer Science, Texas Woman’s University, Denton, TX (2004)

- Honors Scholar Program Graduate, Texas Woman’s University, 2001 - 2004
- Texas Instruments Women in Engineering Fellowship, 2001-2004 (\$7K/semester)
- Texas Woman’s University Presidential Scholarship, 2001-2004 (Full scholarship)

Associate in Applied Sciences, Management, Dallas County Community College District, TX (*in progress*)

- Management – Supervisor Certificate (2017)

PROFESSIONAL EXPERIENCE

- **Director of Professional Development** (08/14 – present)
National Alliance for Partnerships in Equity, Gap, PA
- **Chief Consultant** (2009 – present)
Engineering Equity into Education; Meagan Pollock Business Development Services, Dallas, TX
Key Clients: National Alliance for Partnerships in Equity, Texas Instruments Education Technology, High Tech High Heels, Scientific Minds LLC, Tegwin Pulley Inc., Learning.com, Heather Foods, Cakes Plus
- **Graduate Research Assistant** (09/09 – 12/10)
Purdue Institute for P-12 Engineering and Research Institute, West Lafayette, IN
- **Summer Projects Manager** (4/09 – 08/09)
Purdue Institute for P-12 Engineering and Research Institute, West Lafayette, IN
- **Product Development Engineer** (10/07 – 03/09)
Texas Instruments, Digital Light Processing, Dallas, TX
- **Product Development Engineer** [Co-op] (1/07 – 07/07)
Texas Instruments, Digital Light Processing, Dallas, TX

- **Product Marketing Engineer** [Co-op] (08/03 – 05/04)
Texas Instruments, Linear Amplifiers, Tucson, AZ
- **Product Marketing Engineer** [Co-op] (06/02 – 07/02)
Texas Instruments, Audio Power Amplifiers, Dallas, TX
- **English as a Second Language Live-in Tutor** (07/05 – 12/05)
Málaga, Spain
- **Web Architect** (07/04 – 12/04):
Content Solutions, Denton, TX
- **Research & Teacher's Assistant** (01/02 – 05/03)
Texas Woman's University, Denton, TX

TRAINING & CERTIFICATIONS

- Management Supervisor Certificate, Dallas County Community College District, 2017
- Certified Educational Equity Instructor, National Alliance for Partnerships in Equity, 2013
- Leadership Pipeline Class, a program of Leadership Women, 2012
- Purdue University Applied Management Principles Program, 2010
- University of Málaga, Spain, Intensive Spanish Language Course, (30 hours/week; 8 weeks), 2005

LEADERSHIP & SERVICE

Executive and Advisory Boards

- Board of Directors, Foundation for Batten Hope (501c3 status pending), 2017 – present
- Ad Hoc Committee on STEM Programming, National Association for College Admission Counseling, *selected*, 2015 – present
- Advisory Board, Little Cypress Mauriceville High School STEM Academy, *selected*, 2014 – present
- Advisory Board, STEM Jobs Magazine, by Victory Media, *selected*, 2014 – present

National Committees

- Fund Committee, The Batten Hope Fund of Dallas Foundation, 2017 – present
- Advisory Board, Mila's Miracle Foundation, 2017 – present
- Webmaster, American Society for Engineering Education (ASEE) Precollege Engineering Education Division, *selected*, 2016 – present
- Member of Diversity Committee, American Society for Engineering Education (ASEE) Precollege Engineering Education Division, *volunteer*, 2016 – present
- Member of Executive Board, American Society for Engineering Education (ASEE) Precollege Engineering Education Division, *elected*, 2015 – 2017
- Chair of Branding Committee, American Society for Engineering Education (ASEE) Precollege Engineering Education Division, *selected*, 2015 – 2017
- Planning Committee for American Society for Engineering Education (ASEE) K-12 Annual Workshops, *volunteer*, 2013 – 2016
- Leadership Team, Big Beacon: A Movement to Transform Engineering Education, 2012 – 2014

Review Panels

- Reviewer for the Journal for Engineering Education, *volunteer*, 2015 – present
- Review Panelist, National Science Foundation Innovative Technology Experiences for Students and Teachers, *selected*, year disclosed
- Reviewer for American Society for Engineering Education (ASEE), *volunteer*, K-12 and Precollege Division, 2012 – present
- Reviewer for Journal Pre-College Engineering Education Research, *volunteer*, 2010 – 2011

Mentoring and Student Advising

- Academic Coaching/Mentor, Purdue University Women in Engineering Program, *selected*, 2015 – 2017
- Volunteer Speaker, Mentor and STEM Role model for students, *volunteer and selected*

Early Career

- STEM Career Workshop Director, Women of TI Fund, *selected*, 2008 – 2012
- Co-President, Purdue School of Engineering Education Graduate Student Association, *elected*, 2010
- Steering Team Member, TI New Employee Initiative, 2008
- Steering Team Member, TI Women's Initiative, Committee Chair, 2008
- Committee Chair, National Women's Museum Fundraising Event, *selected*, 2008
- Co-Captain, Texas Tech Iron Raiders Powerlifting Team, 2006
- President, Association of Computing Machinery, TWU, *elected*, 2002-2003

PRESENTATIONS, TALKS, & TEACHING EXPERIENCE

Since 2008, I have delivered over one hundred educator professional development workshops, as well as numerous invited speeches, keynote addresses, webinars, and conference presentations on topics of educational equity, engineering education, underrepresentation in STEM, and careers in STEM.

Notable invited talks:

- Invited Talk, "*Unlock the Status Quo: Release a Whole New Engineer*," Engineers Without Borders Canada National Conference, Montreal, CA, 1/16/15
- Invited Talk, "*Inspiring Future Engineers: Strategies for effective and influential role models*," Northeast Texas Society of Professional Engineers, Bonham, TX, 1/8/15
- Keynote, "*Building Courage to Challenge the Status Quo*," Explore Nontraditional Careers Conference, Albuquerque Public Schools, 9/22/15
- Keynote, "*Design Your World*," Society of Women Engineers Design Your World Conference, Dallas, Texas, 3/28/15
- Keynote, "*The Building Blocks of an Inclusive Community*," New Mexico Highlands University, Las Vegas, NM, 8/8/2016
- Keynote, "*Mighty Micromessages for Student Success*," Oregon Department of Education, Pendleton, OR, 3/10/17.
- Keynote, "*We are #STEMpowered! (so hear us roar!)*," AAUW Great Explorations in STEM, Walla Walla, WA . 3/11/17

PUBLICATIONS

- Pollock, M. (2018). *Robots, Racecars, and Rouge*. Manuscript in preparation.
- Pollock, M. (2018). *Micromessaging to Reach and Teach Every Student*. Manuscript in preparation, NAPE. Gap, PA.
- Pollock, M. (2018). *Equipping Campus Educational Equity Coaches*. Manuscript in preparation, NAPE. Gap, PA.
- Pollock, M., & Biddle, E. (2018). *Professional Learning Communities for Educational Equity*. Manuscript in preparation, NAPE. Gap, PA.
- Pollock, M. (2018). *Nontraditional Career Preparation: Root Causes and Strategies, 2nd Edition*. Manuscript in preparation, NAPE. Gap, PA.
- Martin, J., Brown, M., & Pollock, M. (2017). *Eliminating Barriers through Culturally Responsive Pedagogies*. Manuscript in preparation, NAPE. Gap, PA.
- Pollock, M. (2017). My Postcard Collection. Unpublished Manuscript.
- Brown, M., Thompson, J., & Pollock, M. (2017). *Ensuring Equity in Problem Based Learning Toolkit*. NAPE. Gap, PA.
- Brown, M., Tucker, C., & Pollock, M. (2017). *Inspiring Courage to Excel through Self-Efficacy Toolkit*. NAPE. Gap, PA.
- Brown, M., & Pollock, M. (2016). *Realizing Potential with Mindset Toolkit*. NAPE. Gap, PA.
- Williams, B., & Pollock, M. (2015). *Explore Nontraditional Careers Toolkit*. NAPE. Gap, PA.
- Pollock, Meagan. (2014). *Multiple Case Study Analysis of Young Women's Experiences in High School Engineering*. PhD Engineering Education, Purdue University, Lafayette, IN. Advisor: Dr. Monica Cardella.
- Pollock, M. (2013). *Explore STEM Careers Toolkit*. NAPE. Gap, PA.
- Dorie, B., Jones, T., Pollock, M., & Cardella, M. (2014). *Parents as Critical Influence: Insights from five different studies*. Proceedings for the 121st American Society for Engineering Education Annual Conference. Indianapolis, IN.
- Pollock, M. (2013). *Engineering Educators in Industry: a Case Study of a Doctoral Internship*. Proceedings for the 120th American Society for Engineering Education Annual Conference. Atlanta, GA.
- Pollock, M. (2013). *Equipping an Army of Ambassadors: A Workshop Model for a STEM Career Speaker's Bureau*. Proceedings for the 120th American Society for Engineering Education Annual Conference. Atlanta, GA.
- Pollock, M. (2013). *Attracting Future Engineers: Best Practices from K-12 Counselor Professional Development, 2008-2012*. Proceedings for WEPAN's 24th National Conference. Atlanta, GA.
- Ross*, M. (2012). *PK-12 Counselors Knowledge, Attitudes, and Behaviors related to Gender and STEM*. Proceedings for the 119th American Society for Engineering Education Annual Conference, San Antonio, Tx.
- Ross*, M. (2012). *K-12 Engineering Education Market Needs and Analysis for Texas Instruments Education Technology*. A White Paper from a commissioned research study. Dallas, TX.

- Ross*, M. (2011) *Preparing Counselors to Advocate STEM Careers: A Professional Development model for K-12 Counselors*. Proceedings for 118th American Society for Engineering Education Annual Conference. Vancouver, B.C.
- Ross*, M., & Fosmire, M. (2011) *Lifelong learning and information literacy skills and the first year engineering undergraduate: Report of a self-assessment*. Proceedings for 118th American Society for Engineering Education Annual Conference. Vancouver, BC.
- Wertz, R., & Ross*, M. (2011) *Assessing Engineering Students' Information Literacy Skills: An Alpha Version of a Multiple-Choice Instrument*. Proceedings for 118th American Society for Engineering Education Annual Conference. Vancouver, BC.
- Ross*, M. (2011). *Integrated STEM Education: Pairing Engineering is Elementary and Learning.com*. A White Paper prepared for Learning.com. Portland, OR.
- Pollock, M. (2008). *Atomic Layer Deposition as a Moisture Barrier in Wafer Level Packaging of a MEMS Device*. Paper presented at the TI MEMS Symposium, Dallas, TX.
- Pollock, Meagan. (2007). *Permeation & Diffusion of Moisture through the Window Bondline Adhesive for the Digital Micromirror Device*. MS Electrical Engineering, Texas Tech University, Lubbock, TX.
Advisor: Dr. Richard Gale.

* Name change from 2010-2012

PROFESSIONAL AFFILIATIONS

American Society for Engineering Education, Member since 2009

REFERENCES AVAILABLE UPON REQUEST