

# Meagan Pollock, PhD

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## EDUCATION

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

- 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)

- 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, Dallas, TX (*in progress*)

## DISSERTATION & THESIS ACTIVITY

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, 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.

## PROFESSIONAL EXPERIENCE

- **Director of Professional Development** (08/14 – present)  
National Alliance for Partnerships in Equity, Gap, PA
- **Consultant, President** (2008 – present)  
Engineering Equity into Education, Dallas, TX  
*Key Clients:* Scientific Minds LLC, National Alliance for Partnerships in Equity, High Tech High Heels, Tegwin Pulley Inc., Texas Instruments Education Technology, Learning.com
- **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 Certificate, Dallas County Community College (in progress)
- Certified Educational Equity Instructor, National Alliance for Partnerships in Equity
- Leadership Pipeline Class, a program of Leadership Women, 2012
- Purdue University Applied Management Principles Program, 05/10
- University of Málaga, Spain, Intensive Spanish Language Course, (30 hours/week; 8 weeks), 2005

## LEADERSHIP & SERVICE

### *Advisory Boards*

- Advisory Panel of Influential Educators, SmartBrief Education, *selected*, 2016 – present
- Ad Hoc Committee on STEM Programming, National Association for College Admission Counseling, *selected*, 02/2015 – present
- Advisory Board, Little Cypress Mauriceville High School STEM Academy, *selected*, 2014 – present
- Advisory Board, STEM Jobs Magazine, by Victory Media, *selected*, 2014 – present

### *Review Panels*

- 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

### *National Committees*

- Member of Executive Board, American Society for Engineering Education (ASEE) Precollege Engineering Education Division, *elected*, 4/2015 – present
- Chair of Branding Committee, American Society for Engineering Education (ASEE) Precollege Engineering Education Division, *selected*, 6/2015 – present

- Planning Committee for American Society for Engineering Education (ASEE) K-12 Annual Workshops, *volunteer*, 2013 – present
- Leadership Team, Big Beacon: A Movement to Transform Engineering Education, 2012 – 2014

#### *Mentoring and Student Advising*

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

#### *Early Career*

- STEM Career Workshop Director, Women of TI Fund, 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.

Specifically, in 2015, I logged 160 direct hours of invited teaching or speaking engagements.

#### *Notable invited talks from 2015:*

- “Unlock the Status Quo: Release a Whole New Engineer,” Engineers Without Borders Canada National Conference, Montreal, CA, 1/16/15
- “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
- “Micromessaging to Reach and Teach Every Student™,” FIRST Robotics Regional Directors Training, Manchester, NH, 6/11/15
- “Mighty Micromessages for Student Success,” AVID National Conference, San Diego, CA, 12/12/15

## PUBLICATIONS

Thompson, Julia and Pollock, Meagan (2016 – not released). *PBLs for Equity Toolkit*. NAPE. Gap, PA.

Brown, Michelle and Pollock, Meagan (2016 – not released). *Growth Mindset for Equity Toolkit*. NAPE. Gap, PA.

Williams, Ben and Pollock, Meagan (2015). *Explore Nontraditional Careers Toolkit*. NAPE. Gap, PA.

Pollock, Meagan (2013). *Explore STEM Careers Toolkit*. NAPE. Gap, PA.

- Dorie, Brianna; Jones, Tamecia; Pollock, Meagan; and Cardella, Monica (2014). *Parents as Critical Influence: Insights from five different studies*. Proceedings for the 121<sup>st</sup> American Society for Engineering Education Annual Conference. Indianapolis, IN.
- Pollock, Meagan (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, Meagan (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, Meagan (2013). *Attracting Future Engineers: Best Practices from K-12 Counselor Professional Development, 2008-2012*. Proceedings for WEPAN's 24th National Conference. Atlanta, GA.
- Ross, Meagan. (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, Meagan (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, Meagan. (2011) *Preparing Counselors to Advocate STEM Careers: A Professional Development model for K-12 Counselors*. Proceedings for 118<sup>th</sup> American Society for Engineering Education Annual Conference. Vancouver, B.C.
- Ross, Meagan and Fosmire, Michael. (2011) *Lifelong learning and information literacy skills and the first year engineering undergraduate: Report of a self-assessment*. Proceedings for 118<sup>th</sup> American Society for Engineering Education Annual Conference. Vancouver, BC.
- Wertz, Ruth and Ross, Meagan. (2011) *Assessing Engineering Students' Information Literacy Skills: An Alpha Version of a Multiple-Choice Instrument*. Proceedings for 118<sup>th</sup> American Society for Engineering Education Annual Conference. Vancouver, BC.
- Ross, Meagan. (2011). *Integrated STEM Education: Pairing Engineering is Elementary and Learning.com*. A White Paper prepared for Learning.com. Portland, OR.
- Pollock, Meagan. (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.

## REFERENCES

### **Tegwin Pulley**

Texas Director, National Alliance for Partnerships in Equity  
 Vice President, Texas Instruments, Retired  
 (214) 882-2892  
 tegwin@tegwinpulley.com  
*Relation: Client, Colleague*

### **Monica Cardella, PhD**

Associate Professor of Engineering Education, Purdue University  
 Director of Informal Learning Environments Research for Pre-College Engineering (INSPIRE)  
 (765) 496-1206  
 cardella@purdue.edu  
*Relation: Doctoral Advisor*

### **Richard Gale, PhD**

Professor, Texas Tech University  
 Distinguished Member, Technical Staff, Texas Instruments, Retired  
 (806) 834-0007  
 richard.gale@ttu.edu  
*Relation: Masters Advisor, TI DLP Coop Advisor, PhD Committee Member*