

## Education

**Arizona State University, Mesa, AZ** – Ph.D., Engineering Education Systems and Design, expected 2022

**Arizona State University, Mesa, AZ** – M.S., Human Systems Engineering, 2021

**University of Pittsburgh, Pittsburgh, PA** - B.S., Industrial Engineering, 2017

### Relevant Coursework

Qualitative Methods and Applications in Engineering Education Research, Quantitative Methods and Applications in Engineering Education Research, Methods and Tools in Applied Cognitive Sciences, and Examining Inequities in STEM, Foundations in Human Systems Engineering, Data Analytics, Inclusive Engineering and Design, Grant and Proposal Writing, and Technological Entrepreneurship

## Research Experience

### **Coley Shifting Perceptions, Attitudes, and Cultures in Engineering (S.P.A.C.E. Lab)**

Graduate Research Assistant

**June 2019 – current**

- Working on a research team led by Dr. Brooke Coley investigating the phenomenological experiences of marginalized groups in engineering environments

### Honors

- National Science Foundation Graduate Fellowship Honorable Mention (2020)

### Publications

- **Thomas, K.**, Greene, M. L., Coley, B. C., & London, J. S. (2021). Black faces, White spaces: Understanding the role of counterspaces in the Black engineering graduate student experience. *2021 CoNECD*. <https://peer.asee.org/36071>
- **Thomas, K.**, Coley, B.C. (Manuscript under review, 2021). “The lab is not life.” Exploring Black engineering graduate students’ value fate at the intersection of two pandemics. *Journal of Engineering Education*
- **Thomas, K.**, Hailu, M. F., Maitra, D., Halkiyo, A., Coley, B.C. (Manuscript Submitted, 2021). Leadership, labor, and learning: Narratives of role strain among undergraduate Black women engineering students. *The Review of Higher Education*.
- Benson, L., & Sellers, V. B., & **Thomas, K.** (2021, January), Diversity, Equity, and Inclusivity in Action: What can engineering education research publications do? *2021 CoNECD*. <https://peer.asee.org/36079>
- Brisbane, J., London, J., Perry, L., Coley, B., **Thomas, K.**, Greene, M., Maitra, D. (Manuscript Submitted, 2021). The Added Value of Black Engineering Students’ Participation in Identity-based Organizations: A Systematic Literature Review. *Studies in Engineering Education (SEE)*.

## Work Experience

### **Journal of Engineering Education (JEE)**

**October 2020 - current**

Diversity, Equity, and Inclusivity Intern

- Developing diverse, equitable, and inclusive practices for the journal
- Revamping the journal guidelines in support of diversity, equity, and inclusivity

### **Amazon.com**

**May 2017 – May 2019**

Amazon Fulfillment Engine Area Manager

- Supported the launch of two new fulfillment centers in Kansas City, KS and Romulus, MI
- Managed a department of 200+ Amazon associates to meet daily demand and productivity goals

## Leadership Experience

### **Arizona State University Graduate College**

**September 2020 – current**

Student Advisory Board: Academic Policy

- Advising and evaluating the university’s academic program handbooks for inclusivity

**American Educational Research Association**

**September 2020 – current**

Division L: Graduate Student Leadership Committee

- Serving as a liaison for graduate student activities in the division

**The Constellation Prize**

**June 2020 – current**

Prize Committee Member

- Organizing award activities including the application, award ceremony, and community of practice

**Ira A. Fulton Schools of Engineering**

**February 2020 – current**

Fulton Graduate Ambassador

- Advising and recruiting prospective graduate students about the Fulton Schools of Engineering

**Swanson School of Engineering**

**August 2012 – April 2017**

Engineering Ambassador

- Advised and recruited prospective students about the Swanson School of Engineering

**National Society of Black Engineers (NSBE)**

**August 2011 – May 2016**

Region II Pre-College Initiative (PCI) Chair (2015 – 2016)

- Implemented STEM programming initiatives for regional K-12 activities
- Organized the 2016 Regional PCI mini-conference for over 300 attendees

Vice President – Pitt Chapter (2014 – 2015)

- Led chapter initiatives and directives
- Achieved 100% retention of the freshman members

Board of Corporate Affiliates Scholarship Winner (2014 & 2015)

NSBE National Leadership Fellow 2013

- Shadowed and assisted the NSBE National Membership Chairperson

Programs Chair – Pitt Chapter (2013 – 2014)

- Managed all chapter programming and outreach events
- NSBE Chapter of the Year Award Winner
- NSBE Program of the Year Award Winner: NSBE Walk-A-thon
- Pitt Organization of the Year Award Winner

Public Relations Chair – Pitt Chapter (2012 – 2013)

- Promoted club activities and events
- Nominated for protecting the NSBE Brand Award

Freshman Representative (2011-2012)

- Represented the Freshman Class for the chapter

**Pitt Science Outreach**

**May 2014 – August 2015**

Co-Founder, Vice President, and Near-Peer Science Mentor

- Established a club that facilitates science activities for the community
- Developed STEM curriculum material for the Summer Science Program

**University of Pittsburgh Residence Life**

**August 2012 – May 2014**

Resident Assistant (RA)

- Managed the Freshman and Upperclassmen Engineering Living Learning Communities
- Regional RA of the Month Award Winner February 2013

- RA Staff of the Year Award Winner for 2013

## **International Experience**

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### ***Engineering Exchange Program in Brazil***

***June 2016 – December 2016***

Universidade Federal do Paraná

- Recipient of the 100K Strong in the Americas Innovation Fund granted by the Obama Administration
- Completed an international and interdisciplinary engineering project solving a transportation issue at the university that included an emphasis on renewable energy

### ***Engineering for a Better Environment: Brazil***

***July 2015 – August 2015***

University of Pittsburgh Panther Program

- Evaluated alternative and green energy solutions in Brazil with those of the United States