

Samantha R. Brunhaver

CURRENT AFFILIATION

Assistant Professor (August, 2015 – Present)
The Polytechnic School
Ira A. Fulton Schools of Engineering
Arizona State University
Mesa, Arizona 85212

RESEARCH INTERESTS

- Engineering career pathways and career decision-making
- Persistence of undergraduate engineering students
- Professional engineering practice
- School-to-work transition of engineers
- Faculty pedagogical risk-taking
- User-centered design and project-based learning

PEER-REVIEWED JOURNAL PUBLICATIONS

1. Korte, R. F., Brunhaver, S. R., & Zehr, S. M. (2019). The socialization of STEM professionals in STEM careers: A study of newly hired engineers. Special Issue on Challenges and Solutions Facing Science, Technology, Engineering, and Mathematics (STEM) Careers in the 21st Century. *Advances in Developing Human Resources*, 21(1), 92-113.
2. Brunhaver, S. R., Bekki, J. M., London, J. S., Carberry, A. R., & McKenna, A. F. (2018). Development of the Engineering Student Entrepreneurial Mindset Assessment (ESEMA). Special Issue on Entrepreneurial Mindset. *Advances in Engineering Education*, 7(1), 1-12.
3. London, J. S., Bekki, J. M., Brunhaver, S. R., Carberry, A. R., & McKenna, A. F. (2018). A framework for entrepreneurial mindset and behaviors in undergraduate engineering students: Operationalizing the Kern Family Foundation's "3C's". Special Issue on Entrepreneurial Mindset. *Advances in Engineering Education*, 7(1), 1-12.
4. Carberry, A. R., Brunhaver, S. R., Csavina, K. R., & McKenna, A. F. (2016). Comparison of written versus verbal peer feedback for design projects. Special Issue associated with the Harvey Mudd Design Workshop IX: Design Thinking in Design Education. *International Journal of Engineering Education*, 32(3), 1458-1471.
5. Korte, R., Brunhaver, S., & Sheppard, S. (2015). (Mis)Interpretations of organizational socialization: The expectations and experiences of newcomers and managers. *Human Resource Development Quarterly*, 26(2), 185-208.
6. Schar, M., Sheppard, S., Brunhaver, S., Cuson, M., & Grau, M. M. (2014). Bending moments to business models: Integrating an entrepreneurship case study as part of core mechanical engineering curriculum. Special submission associated with winning the 2016 ASEE Entrepreneurship & Innovation Division Best Strategies Teaching Award. *The Journal of Engineering Entrepreneurship*, 5(1): 1-18.
7. Steele, K. M., Brunhaver, S. R., & Sheppard, S. D. (2014). Feedback from in-class worksheets and discussion improves performance on the statics concept inventory. *International Journal of Engineering Education*, 30(4), 992-999.

8. Winters, K. E., Matusovich, H. M., & Brunhaver, S. R. (2014). Engineering graduates making career choices: Family matters. *Journal of Women & Minorities in Science & Engineering*, 20(4), 293-316.
9. Brunhaver, S. R., Lande, M., Sheppard, S. D., & Carryer, J. E. (2012). Fostering an enterprising learning ecology for engineers. Special Issue associated with the Harvey Mudd Design Workshop VIII: Entrepreneurship & Innovation. *International Journal of Engineering Education*, 28(2): 355-363.

BOOK CHAPTERS

1. Brunhaver, S. R., Korte, R. F., Barley, S. R., & Sheppard, S. D. (2018). Bridging the gaps between engineering education and practice. In Eds. R. B. Freeman & H. Salzman, *Engineering in a Global Economy*, University of Chicago Press.
2. Gilmartin, S. K., Antonio, A. L., Brunhaver, S. R., Chen, H. L., & Sheppard, S. D. (2018). Career plans of undergraduate engineering students: Characteristics and contexts. In Eds. R. B. Freeman & H. Salzman, *Engineering in a Global Economy*, University of Chicago Press.
3. Sheppard, S. D., Antonio, A. L., Brunhaver, S. R., & Gilmartin, S. K. (2014). Studying the career pathways of engineers: An illustration with two datasets. In Eds. A. Johri & B. Olds, *Cambridge Handbook of Engineering Education Research*, Cambridge University Press.

PEER-REVIEWED CONFERENCE PROCEEDINGS

1. Brunhaver, S., Jesiek, B. K., Strong, A. C., Korte, R., & Stevens, R. (2018). *Research on engineering practice: Catalyzing a scholarly community*. Proceedings of the Frontiers in Education (FIE) Conference, San Jose, CA, October 3-6.
2. Brunhaver, S., Carberry, A., London, J., Yasuhara, K., Allendoerfer, C., Case, J., Finelli, C., McKenna, A., Newstetter, W., Sheppard, S., Smith, K., & Watson, K. (2018). *Meet the engineering education pioneers – Panel and roundtable*. Proceedings of the Frontiers in Education (FIE) Conference, San Jose, CA, October 3-6.
3. Carrico, C., Matusovich, H., Brunhaver, S., Rhee, J., Sheppard, S., & Chen, H. L. (2018). *Panel: Student self-perceptions regarding the first position after graduation: What are they and how do we help?* Proceedings of the Frontiers in Education (FIE) Conference, San Jose, CA, October 3-6.
4. Sheppard, M., Kellam, N., & Brunhaver, S. (2018). *Understanding disabled veterans' experiences as they transition into an undergraduate engineering program*. Proceedings of the Frontiers in Education (FIE) Conference, San Jose, CA, October 3-6.
5. Abhyankar, R., Carrico, C., Matusovich, H. M., & Brunhaver, S. (2018). *Junior and senior engineers' beliefs about the influence of socializers on their first job-related decisions*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Salt Lake City, UT, June 24-27.
6. Carberry, A. R., Brunhaver, S., & London, J. S. (2018). *A way to win: Incentivizing engineering faculty to incorporate entrepreneurship into their courses*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Salt Lake City, UT, June 24-27.
7. McKenna, A., Bekki, J., Brunhaver, S., Carberry, A., Jordan, S., Kellam, N., Lande, M., & London, J. (2018). *Progress on the pathway to instigating a revolution of additive innovation*. Proceedings of the American Society for Engineering Education (ASEE) Annual

- Conference, Salt Lake City, UT, June 24-27.
8. Streveler, R., Sheppard, S., Brunhaver, S., Matusovich, H., Carrico, C., Rhee, J., & Chen, H. (2018). *Professional Engineering Pathways Study: The value of a community of practice to stimulate use of research findings that inform practice*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Salt Lake City, UT, June 24-27.
 9. Rhee, J., Sheppard, S., Brunhaver, S., Carrico, C., & Streveler, R. (2017). *Supporting student career development of undergraduate engineering*. Proceedings of the Frontiers in Education (FIE) Conference, Indianapolis, IN, October 18-21.
 10. Bekki, J. M., Ayela-Uwangué, A., Brunhaver, S. R., Kellam, N. N., Lande, M., & McKenna, A. F. (2017). *I want to try that too!: Development of a conceptual framework for pedagogical risk-taking among faculty*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Columbus, OH, June 25-28.
 11. Brunhaver, S. R., Carrico, C., Matusovich, H. M., Sama, M., Abhyankar, R., Streveler, R. A., & Sheppard, S. (2017). *Measuring students' subjective task values related to the post-undergraduate career search*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Columbus, OH, June 25-28. Awarded Best Paper in Educational Research and Methods Division.
 12. Schar, M., Gilmartin, S. K., Rieken, B., Brunhaver, S. R., Chen, H. L., & Sheppard, S. (2017). *The making of an innovative engineer: Academic and life experiences that shape engineering task and innovation self-efficacy*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Columbus, OH, June 25-28.
 13. Streveler, R. A., Matusovich, H. M., Carrico, C., Brunhaver, S. R., Sheppard, S., Chen, H. L., Harris, A., Abhyankar, R., & Sama, M. (2017). *Professional Engineering Pathways Study: Using a community of practice model to propagate findings and engage the community*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Columbus, OH, June 25-28.
 14. Brunhaver, S. R., Matusovich, H. M., Streveler, R. A., Sheppard, S., Carrico, C., & Harris, A. (2016). *Understanding engineering students' professional pathways: A longitudinal mixed-methods study*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, New Orleans, LA, June 26-29.
 15. Carrico, C., Harris, A., Matusovich, H. M., Brunhaver, S. R., Streveler, R., & Sheppard, S. (2016). *Helping engineering students get jobs: Views from career services professionals*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, New Orleans, LA, June 26-29.
 16. McKenna, A. F., Kellam, N. N., Lande, M., Brunhaver, S. R., Jordan, S. S., Bekki, J. M., Carberry, A. R., & London, J. S. (2016). *Instigating a revolution of additive innovation: An educational ecosystem of making and risk taking*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, New Orleans, LA, June 26-29.
 17. Brunhaver, S., Streveler, R., Carrico, C., Matusovich, H., Boylan-Ashraf, P., & Sheppard, S. (2015). *Professional Engineering Pathways Study: A longitudinal study of early career preparedness and decision-making*. Proceedings of the Frontiers in Education (FIE) Conference, El Paso, TX, October 21-24.
 18. Brunhaver, S. R., Gilmartin, S. K., Chen, H. L., Matusovich, H. M., & Sheppard, S. (2015). *Comparing disparate outcome measures for better understanding of engineering graduates*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Seattle, WA, June 14-17.

19. Rodriguez, J. R., Chen, H. L., Sheppard, S., Jin, Q., & Brunhaver, S. R. (2014). *Exploring entrepreneurial characteristics and experiences of engineering alumni*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Indianapolis, IN, June 15-18.
20. Brunhaver, S. R., Gilmartin, S. K., Grau, M. M., Warner, M., Sheppard, S., & Chen, H. L. (2013). *Not all the same: A look at early career engineers employed in different sub-occupations*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Atlanta, GA, June 23-26.
21. Schar, M., Sheppard, S., Brunhaver, S. R., Cuson, M., & Grau, M. M. (2013). *Bending moments to business models: Integrating an entrepreneurship case study as part of core mechanical engineering curriculum*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Atlanta, GA, June 23-26. Awarded Best Teaching Strategies Paper in Entrepreneurship & Engineering Innovation Division.
22. Scutt, H. I., Gilmartin, S. K., Sheppard, S., & Brunhaver, S. R. (2013). *Research-informed practices for inclusive science, technology, engineering, and math (STEM) classrooms: Strategies for educators to close the gender gap*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Atlanta, GA, June 23-26.
23. Winters, K. E., Matusovich, H. M., Brunhaver, S. R., Chen, H. L., Yasuhara, K., & Sheppard, S. (2013). *From freshman engineering students to practicing professionals: Changes in beliefs about important skills over time*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Atlanta, GA, June 23-26.
24. Carrico, C. A., Winters, K. E., Brunhaver, S. R., & Matusovich, H. M. (2012). *The pathways taken by early career professionals and the factors that contribute to pathway choices*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, San Antonio, TX, June 10-13.
25. Chen, H. L., Grau, M. M., Brunhaver, S. R., Gilmartin, S. K., Sheppard, S., & Warner, M. (2012). *Designing the Pathways of Engineering Alumni Research Survey (PEARS)*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, San Antonio, TX, June 10-13.
26. Grau, M. M., Sheppard, S., & Brunhaver, S. R. (2012). *Revamping Delta Design for introductory mechanics*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, San Antonio, TX, June 10-13.
27. Atman, C. J., Sheppard, S., Brunhaver, S., Chacra, D., Chen, H. L., Gilmartin, S. K., Kilgore, D., Lande, M., Lichtenstein, G., Lund, D., Smith, K. A., Turns, J. A., & Yasuhara, K. (2011). *Special session: Discovering implications of the Academic Pathways Study for YOUR campus*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Vancouver, B.C., June 26-29.
28. Brunhaver, S. R., Sheppard, S., & Eris, O. (2011). *Looking at engineering students through a motivation/confidence framework*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Vancouver, B.C., June 26-29.
29. Brunhaver, S., Korte, R., Lande, M., & Sheppard, S. (2010). *Supports and barriers that recent engineering graduates experience in the workplace*. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference, Louisville, KY, June 20-23.

PEER-REVIEWED CONFERENCE PRESENTATIONS

1. Kellam, N. N., Brunhaver, S. R., Lande, M., Jordan, S. S., Bekki, J. M., Carberry, A. R., London, J. S., & McKenna, A. F. (2018). *Revolutionizing teaching practices in the mezzanine: Instigating change through faculty risk-taking and additive innovation*. Paper presented at the American Education Research Association (AERA) Annual Meeting, New York, NY, April 13-17.
2. McKenna, A., Kellam, N., Lande, M., Brunhaver, S., Jordan, S., Bekki, J., Carberry, A., & London, J. (2016). *Capturing the ecosystem and culture to support risk-taking and additive innovation: Laying the groundwork*. Paper presented at the AAAS Envisioning the Future of Undergraduate STEM Education (EnFuse): Research and Practice Symposium, Washington, D. C., April 24-29.
3. Carberry, A., Kellam, N., Brunhaver, S., Sugar, T., & McKenna, A. (2015). *Product archaeology: Excavating engineering identities*. Paper presented at the Research in Engineering Education Symposium (REES), Dublin, Ireland, July 13-15.
4. Carberry, A. R., Brunhaver, S. R., Csavina, K. R., & McKenna, A. F. (2015). *Comparison of written versus verbal peer feedback for design projects*. Paper presented at the Harvey Mudd Design Workshop IX: Design Thinking in Design Education, Claremont, CA, May 28-30.
5. Brunhaver, S., Gilmartin, S., Chen, H., Grau, M., Warner, M., Matusovich, H., Winters, K., Carrico, C., & Sheppard, S. (2013). *Differences in the work characteristics and experiences of early career engineering graduates*. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA, April 27-May 1.
6. Brunhaver, S., Gilmartin, S., Chen, H. L., & Sheppard, S. (2012). *Factors associated with the current occupational status of early career engineering graduates*. Paper presented at the Association for the Study of Higher Education (ASHE) Annual Conference, Las Vegas, NV, November 15-17.
7. Gilmartin, S. K., Antonio, A. L., Chen, H. L., Brunhaver, S. R., & Sheppard, S. D. (2012). *Retaining engineers: Influences on the postgraduate plans of U.S. undergraduate engineering students in and out of the engineering field*. Paper presented at the Comparative & International Education Society (CIES) Annual Conference, Puerto Rico, April 22-27.
8. Winters, K. E., Matusovich, H. M., & Brunhaver, S. (2012). *The impacts of economic decline on career decision making among early career engineers*. Paper presented at the American Educational Research Association (AERA) Annual Meeting, Vancouver, B.C., April 13-17.
9. Brunhaver, S. R., Lande, M., Sheppard, S. D., & Carryer, J. E. (2011). *Fostering an enterprising learning ecology for engineers*. Paper presented at the Harvey Mudd Design Workshop VIII: Innovation & Entrepreneurship, Claremont, CA, May 26-28.

CONFERENCE WORKSHOPS & PANELS

1. Carrico, C., Brunhaver, S., & Abhyankar, R. (2018). *Supporting student career development of undergraduate engineering*. Workshop presented at the American Society for Engineering Education (ASEE) Annual Conference, Salt Lake City, UT, June 24-27.
2. Harris, A., Sheppard, S., Brunhaver, S., & Rhee, J. (2017). *Supporting student career development: Views from faculty, student advisors, and service staff*. Workshop presented at the Association of American Colleges & Universities (AAC&U) Annual Meeting, San Francisco, CA, January 25-28.
3. McKenna, A., Brunhaver, S., Carberry, A., & London, J. (2017). *Developing a framework to*

measure the 3 C's. Workshop presented at the Kern Engineering Entrepreneurship Network (KEEN) National Conference, Jacksonville, FL, January 4-6.

4. Brown, P., Brunhaver, S., Carrico, C., Ekoniak, M., & Matusovich, H. (2012). *Catalyzing continuing conversations: Informed decisions about majors and possible careers in engineering*. Panel session presented at the Frontiers in Education (FIE) Conference, Seattle, WA, October 3-6.

INVITED PRESENTATIONS

1. Brunhaver, S. (2016). *An ecological perspective on engineering undergraduate career pathways*. Presentation at the Engineering Education Systems & Design (EESD) Ph.D. Seminar, Arizona State University, Mesa, AZ, November 2.
2. Brunhaver, S. (2014). *Investigating the work and occupations of early career engineering graduates*. Presentation at the National Academy of Engineering Workshop on Pathways for Engineering Talent, Washington, D.C., November 19.
3. Brunhaver, S. (2013). *Preparing students for the workforce: What we can learn from an eight-year study*. Presentation at the Purdue School of Engineering Education Graduate Research Seminar, Purdue University, West Lafayette, IN, October 17.
4. Brunhaver, S. (2013). *From static to dynamic learning: E14 Introduction to Solid Mechanics*. Presentation at the American Society of Mechanical Engineers International Mechanical Engineering Education Leadership Summit, San Diego, CA, March 14.

FUNDED RESEARCH ACTIVITY

- PI – “Collaborative Conference: Research on Engineering Practice: Catalyzing a Scholarly Community.” National Science Foundation. \$33,069 (100% recognition, \$33,069). Funding period: 6/2018 - 5/2020.
- PI – “Research: Staying the Course: Understanding the Motivational Factors Contributing to Persistence among Undergraduate Engineering Students in Online Courses.” Co-PI: Jennifer Bekki (ASU). National Science Foundation. \$372,370 (50% recognition, \$186,185). Funding period: 7/2018 - 6/2021.
- Co-PI – “Mentoring Engineering Faculty to Professional Impact.” PI: Ann McKenna, Co-PIs: Daniel Aukes, Jennifer Bekki, Adam Carberry, James Collofello, Julianne Holloway and Marco Saraniti (ASU). Kern Family Foundation. \$206,714 (10% recognition, \$20,671). Funding period: 6/2018 - 2/2019.
- Co-PI – “Embedding Entrepreneurial Mindset into a Use-Inspired Design Course.” Co-PI: Adam Carberry (ASU). ASU Ira A. Fulton Schools of Engineering KEEN Professorship Mini-Grant. \$11,392 (50% recognition, \$5,696). Funding period: 8/2017 - 12/2017.
- Co-PI – “Transforming Engineering Education through Student and Faculty Mindset Development: Establishing a National Engineering Faculty Training Collaborative and Model EM University.” PI: Ann McKenna, Co-PIs: Jennifer Bekki, Adam Carberry, James Collofello, and Jeremi London (ASU). Kern Family Foundation. \$2,860,000 (5% recognition, \$143,002). Funding period: 1/2016 - 12/2017.
- PI – “Collaborative Research: Professional Engineering Pathways: A Longitudinal Study of Early Career Preparedness and Decision-Making,” Co-PIs: None. National Science Foundation. Subaward to ASU from Stanford University. \$86,863 (100% recognition, \$86,863). Funding period: 9/2015 - 8/2017, with no cost extension to 8/2018.

- Co-PI – “IUSE/PFE: RED: Instigating a Revolution for Additive Innovation: An Educational Ecosystem of Making and Risk Taking.” PI: Ann McKenna, Co-PIs: Shawn Jordan, Nadia Kellam, and Micah Lande (ASU). National Science Foundation. \$1,993,593 (14% recognition, \$279,103). Funding period: 7/2015 - 6/2020.

GRADUATE STUDENT ADVISING

- Chair, Rohini Abhyankar, doctoral student in Engineering Education Systems & Design (EESD), anticipated graduation date: May 2020
- Committee Member, Michael Sheppard, doctoral student in Engineering Education Systems & Design (EESD), anticipated graduation date: May 2022

UNDERGRADUATE STUDENT MENTORING

- Barrett Honors Thesis Co-Director, Michaela Dye, 2018-2019
- Barrett Honors Thesis Director, Samantha Twet, 2014-2015
- Senior Capstone Design Mentor, Refrigerated Merchandiser Design (Sponsored by Ice King, Company Mentor: Ryan Maasen), 2014-2015

COURSES TAUGHT

- ASU 101: The ASU Experience
- EGR 201: Use-Inspired Design Project I
- EGR 202: Use-Inspired Design Project II
- EGR 217: Mechanical Engineering Fundamentals
- EGR 572: Quantitative Methods for Engineering Education Research
- EGR 671: Applications of Qualitative Methods for Engineering Education Research
- EGR 673: Applications of Quantitative Methods for Engineering Education Research

ASU SERVICE ACTIVITIES

- Committee Member, EESD Qualifying Exam Committee – Quantitative Research Methods, 2018-present
- Committee Chair, EESD Graduate Research Seminar Organizing Committee, 2018
- Committee Member, Executive Committee, Ira A. Fulton Schools of Engineering, 2016-present
- Committee Member, EESD Tenure Track Faculty Search Committee, 2015-2016
- Instructor, ASU Barrett Summer Scholars Program 9th grade course on Arduino + Engineering for 2 weeks, 2018
- Volunteer, Fulton Schools of Engineering Women in Engineering Dinner, 2016-2018
- Volunteer, Fulton Schools of Engineering E2 Camp, 2014-2016

PROFESSIONAL SERVICE ACTIVITIES

- Director, ASEE Educational Research & Methods (ERM) Division Executive Board, 2018-present
- Co-Chair, ASEE Educational Research & Methods (ERM) Division Apprentice Faculty Grant (AFG) Committee, 2016-2018

- Reviewer, ASEE Educational Research & Methods (ERM) Division Apprentice Faculty Grant (AFG) Committee, 2015

PROFESSIONAL MEMBERSHIPS

- American Educational Research Association (AERA)
- American Society for Engineering Education (ASEE)
- American Society of Mechanical Engineers (ASME)
- Society of Women Engineers (SWE)

PROFESSIONAL EXPERIENCE

- Assistant Professor, Engineering, Arizona State University, Ira A. Fulton Schools of Engineering, The Polytechnic School, Mesa, AZ, August 2015-present
- Instructor ABD, Engineering, Arizona State University, Ira A. Fulton Schools of Engineering, The Polytechnic School, Mesa, AZ, August 2014-August 2015
- Graduate Research Assistant, Designing Education Lab, Mechanical Engineering, Stanford University, Stanford, CA, March 2009-August 2014
- Graduate Research Assistant, Manufacturing Modeling Lab, Mechanical Engineering, Stanford University, Stanford, CA, September 2008-March 2009
- Graduate Reliability Engineering Intern, Engineering & Implementation Group, Procter & Gamble Company, Boston, MA, May 2008-September 2008
- Undergraduate Engineering Co-Op, Endoscopy R&D Division, Boston Scientific Corporation, Marlborough, MA, January 2007-August 2007
- Undergraduate Engineering Co-Op, Vascular Surgery R&D Division, Boston Scientific Corporation, Watertown, MA, January 2006-June 2006
- Undergraduate Engineering Co-Op, Mechanical Seals Division, A. W. Chesterton, Groveland, MA, January 2005-June 2006

EDUCATION

- Ph.D., Mechanical Engineering (Minor: Education), Stanford University, 2015
- M.S., Mechanical Engineering (Design for Manufacturing), Stanford University, 2012
- B.S., Mechanical Engineering, Northeastern University, 2008

HONORS & AWARDS

- Best Paper Award, ASEE Educational Research & Methods Division, 2017
- Selected Participant, NAE Frontiers of Engineering Education Symposium, 2016
- Apprentice Faculty Grant Award, ASEE Educational Research & Methods Division, 2013
- Best Teaching Strategies Paper Award, ASEE Entrepreneurship & Engineering Innovation Division, 2013
- Diversifying Academia Recruiting Excellence Fellowship, Stanford University, 2012-2014
- Stanford Graduate Fellowship, Stanford University, 2010-2012
- Stanford School of Engineering Graduate Fellowship, Stanford University, 2008-2010
- Pi Tau Sigma Mechanical Engineering Honor Society, 2006
- Tau Beta Pi Engineering Honor Society, 2006