

Sarah Jane (SJ) Bork

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Education

University of Michigan	Ph.D.	2023	Engineering Education Research (<i>Thesis: Examining Factors Related to Engineering Graduate Students' Mental Health Experiences</i>)
University of Michigan	M.S.	2020	Engineering Education Research
Ohio State University	M.S.	2017	Electrical and Computer Engineering
Ohio State University	B.S.	2017	Electrical and Computer Engineering (Physics minor)

Interests

Research

- Graduate student mental health
- Engineering culture
- Mixed methods & participatory action research

Teaching and Professional

- First-year engineering
- Active learning pedagogies
- Project-based and experiential learning

Research, Professional, and Teaching Experience

2023 –	Assistant Professor, School of Electrical and Computer Engineering & Engineering Education Transformations Institute, University of Georgia
2017 – 2023	Graduate Student Researcher, Engineering Education, University of Michigan
2022	Graduate Teaching Apprentice, Engineering Education, University of Michigan
2021 – 2022	Engineering Teaching Consultant, Center for Research on Learning and Teaching, University of Michigan
2021 – 2022	Student Columnist, American Society for Engineering Education PRISM Magazine
2020 – 2021	Graduate Student Instructor, Introduction to Engineering, University of Michigan
2018	Graduate Student Instructor, Electrical and Computer Engineering, University of Michigan
2015 – 2016	Teaching Assistant, Engineering Education, Ohio State University
2014 – 2016	Student Tutor, Math & Statistics Learning Center, Ohio State University
2016 – 2017	Student Intern, American Electric Power, Columbus, OH
2015 – 2016	Student Trainee, Wright-Patterson Air Force Base Research Lab

Honors, Awards, & Nominations

Recipient of Rackham's Susan Lipschutz Fund for Women Graduate Students through the Dr. Teh-Hsun & Mang-Shuen Lee Endowment Fund Award, 2022 (University of Michigan)

Recipient of Richard F. & Eleanor A. Towner Prize for Distinguished Academic Achievement, 2021 (University of Michigan)

American Society for Engineering Education Graduate Studies Division Best Student Paper Award, June 2019 (ASEE)

Recipient of Rackham Merit Fellowship, 2017-2021 (University of Michigan)

Recipient of the Helen Cowan Book Award, Spring 2014 (Ohio State University)

Recipient of Scarlet & Gray Grant and Maximus Scholarship, 2013 – 2017 (Ohio State University)

Professional Memberships

American Society for Engineering Education (ASEE)

Publications (underline = graduate student; * = undergraduate student)

Peer-Reviewed Articles

1. **Bork, S. J.**, & Mondisa, J.L. (2022). Engineering Graduate Students' Mental Health: A Scoping Literature Review. *Journal of Engineering Education*, 111(3), 665-702.

Popular Press

1. Column (February 2022), Sharing the Treasure (Map). <https://www.asee-prism.org/micro2macro-feb/>
2. Column (November 2022), Tiny Tweaks, Immense Impact. <https://www.asee-prism.org/micro2macro-fall/>

Peer-Reviewed Conference Proceedings & Presentations

1. Clancy, S. M., Cabrera, B. A., **Bork, S. J.**, Merz, K., Mosyjowski, E. A., Daly, S. R., ... & Mondisa, J. (June 2023). *Receiving curricular messages: Engineering students' understandings of valued practices in their field*. Paper presented at 2023 ASEE Annual Conference & Exposition, Baltimore, MD.
2. **Bork, S. J.**, Young, N. T., & Mondisa, J.L (2022, June). Exploring the Relationship Between Culture and Science, Engineering, and Mathematics Graduate Students' Mental Health. Paper presented at 2022 ASEE Annual Conference & Exposition, Minneapolis, MN. *Best Student Paper Award for the Graduate Studies Division*.
3. **Bork, S. J.**, Clarke, N., & Mondisa, J.L (2022, June). Mentoring Approaches that Support Minoritized STEM Undergraduates: A Pilot Study (EBR). Paper presented at 2022 ASEE Annual Conference & Exposition, Minneapolis, MN.
4. **Bork, S. J.**, & Mondisa, J. (2021, July). *Using Photovoice to Examine the Mental Health Experiences of Engineering Graduate Students during COVID-19*. Paper presented at 2021 ASEE Virtual Annual Conference Content Access, Virtual Online.
5. Garcia, P., Perez, M., **Bork, S. J.**, Farrell, D., Ericson, B., and Mondisa, J.L. (2021, May). *Supporting Mutually Beneficial Near-Peer Mentoring Relationships Within Computing Education Programs*. Paper presented at 2021 Annual Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT).
6. **Bork, S. J.**, & Mondisa, J. (2020, June), *Validation of an Instrument to Measure Science, Engineering, and Mathematics Graduate Students' Mental Health (Work in Progress)*. Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual Online. <https://peer.asee.org/35482>.
7. **Bork, S. J.**, & Mondisa, J. (2019, June), *Science, Engineering, and Mathematics Graduate Student Mental Health: Insights from the Healthy Minds Network Dataset*. Paper presented at 2019 ASEE Annual Conference & Exposition, Tampa, Florida. <https://peer.asee.org/33255>. *Best Student Paper Award for the Graduate Studies Division*.
8. **Bork, S. J.**, & Tuladhar, A*, & Mondisa, J. (2019, June), *Board 134: Methods for Conducting a Scoping Literature Review on Engineering Graduate Student Mental Health (Work in Progress)*. Paper presented at 2019 ASEE Annual Conference & Exposition, Tampa, Florida. <https://peer.asee.org/32242>.
9. **Bork, S. J.**, Wiwel, C. R., & Blackburn, M. W., & Johnson, A. W., & Finelli, C. J. (2018, June), *Board 12: Impact of Flexible Classroom Spaces on Instructor Pedagogy and Student Behavior*. Paper presented at 2018 ASEE Annual Conference & Exposition, Salt Lake City, Utah. <https://peer.asee.org/29895>.

Seminars, Panels & Invited Talks

1. Panel (organizer & panelist), Navigating the Dual-Career Search, ASEE Conference & Exposition (Student Division), June 24, 2024.
2. Invited speaker, EETI Forum (University of Georgia), April 16, 2024.
3. Invited speaker, SEER Show and Tell (University of Georgia), March 12, 2024.
4. Invited panelist, Mental Health and Wellness in Engineering Virtual Community, supporting prioritizing mental health and wellness in engineering and beyond, January 2024.
5. Invited speaker, 2023 Spring Student Seminar Exchange, Arizona State University, March 30, 2023.
6. Bork, S.J. & Oje, V., Co-Facilitation of Workshop at ASEE National Conference, *How to Conduct a Literature Review (Systematic & Scoping)*.
7. Invited talk to Dr. Finelli's research lab on engineering graduate student mental health. September 16, 2021. Focus on 2019 publication and promotion of personal well-being.
8. Co-lead a workshop with Dr. Joi-Lynn Mondisa titled "Fostering Well-being, An Entering Mentoring Series Curricula". University of Michigan, January 9, 2020.
9. EER Work-in-progress Session on Graduate Student Mental Health. University of Michigan EER Community Lead Research Session, Ann Arbor, MI, October 31, 2018.
10. EER Guided Discussion Co-Lead on Engineering and Gender. University of Michigan EER Journal Club, Ann Arbor, MI, February 16, 2018.

Service & Leadership

2021 –	Journal of Engineering Education Reviewer
2019 –	American Society for Engineering Education reviewer
2021 – 2023	Graduate Society of Women Engineers (GradSWE), University of Michigan <i>Co-Director (June 2022 – May 2023)</i> <i>Treasurer (January – June 2022)</i> <i>Co-Officer Professional Development (September 2020 – December 2021)</i>
2019 – 2023	American Society for Engineering Education, University of Michigan Student Chapter <i>Vice President (May 2019 – 2022)</i>
2019 – 2023	College of Engineering Graduate Student Advisory Committee, EER Rep., University of Michigan
2021 – 2022	American Society for Engineering Education, Co-Program Chair, National Student Division
2018 – 2020	Rackham Student Government <i>President (May – August 2020)</i> <i>Mental Health Director (January – May 2020)</i>
2018 – 2020	Student Advocates for Graduate Education <i>Co-Chair Mental Health Working Group (September 2019 – April 2020)</i>

Skills & Proficiencies

Quantitative Analysis: descriptive statistics (mean, median, mode, standard deviation, variance, IQR); inferential statistics (t-tests, regression); psychometric statistics (factor analysis [EFA&CFA], item response theory, instrument development)

Qualitative Analysis: data collection (interviews, focus groups, image collection, text analysis); analysis (open coding, thematic, a priori via theoretical or conceptual frameworks); validity concerns (inter-rater reliability, member checking)

Statistical Programs: R, Stata, M-Plus, Excel

Related Certificates & Workshops

Photovoice Analysis and Scholarly Presentation Workshop (MSU, contact Diane Doberneck)	2020
Search Inside Yourself (mindfulness-based emotional intelligence training)	2020
Designing Your Life (six-week seminar, designing fulfilling career)	2020
Instrument Validation Workshop (CEDER, University of Michigan)	2018
Fundamentals of Engineering (FE) Electrical and Computer Exam - Ohio board	2017
SOLIDWORKS Mechanical Design – Certified Associate	2015

Courses Taught (* = lead instructor, ^ = student instructor)

University of Georgia, Athens, GA

- Introduction to Electrical and Computer Engineering* (ECSE 1100 & 1100H) 2024

University of Michigan, Ann Arbor, MI

- Introduction to Engineering Education Research^ (EER 601) 2022
- Continuous Improvement and Operations Management^ (Engineering 100) 2020, 2021
- Introduction to Signals & Systems^ (EECS 216) 2018

Ohio State University, Columbus, OH

- Computer Graphics Using SolidWorks^ (Engineering 4410.02) 2016