

# EMILY BOLGER

Data Science Preceptor, Data Science Institute, University of Chicago

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## EDUCATION

Ph.D. in Computational Mathematics,  
Science, and Engineering

Michigan State University

August 2020 – June 2026

Advisor: Dr. Marcos (Danny) Caballero

B.S. in Mathematics

Moravian College

August 2016 – May 2020

Minors in Economics, Informatics, and Dance (self-designed)  
Summa Cum Laude with Honors in Statistics  
GPA: 3.90

## AFFILIATIONS

- PME National Mathematical Honors Society
- OΔE National Economics Honors Society
- ΦHΣ National Honors Society
- Graduate Women in Science - Mid-Michigan Chapter
- Association for Women in Mathematics
- ACM Special Interest Group on Computer Science Education (SIGCSE)
- Berkshire Conference of Women Historians

## AWARDS AND CERTIFICATES

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|----------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Fitch H. Beach Award for Outstanding Doctoral Research - Honorable Mention | Michigan State University, April 2026                                 |
| Dissertation Completion Fellowship                                         | Michigan State University, March 2026                                 |
| The Graduate School Travel Fellowship                                      | Michigan State University, Aug 2025, April 2026                       |
| The College of Engineering Graduate Travel Fellowship                      | Michigan State University, March 2023, Aug 2025, April 2026           |
| The Raymond P. and Marie M. Ginther Graduate Fellowship                    | Michigan State University, April 2020                                 |
| The Schattschneider Mathematics and Computer Science Prize                 | Moravian College, April 2020                                          |
| OΔK Unsung Hero Award                                                      | Moravian College, April 2020                                          |
| Communicating Science for Policy                                           | National Science Policy Network, July 2025                            |
| Spartan Resilience Education Certificate                                   | University Health and Wellbeing, Michigan State University, June 2025 |
| Certificate of Attendance                                                  | ComSciCon, Michigan State University, Oct 2024                        |
| Certificate in College Teaching (CCT)                                      | The Graduate School, Michigan State University, June 2023             |
| <a href="#">Link to CCT Project.</a>                                       |                                                                       |

## RESEARCH EXPERIENCE

Graduate Research Assistant

Michigan State University

May 2021 – Aug 2026

East Lansing, MI

Exploring the impact and ability of Natural Language Processing techniques for information extraction in systematic literature reviews. Identify and analyze change strategies published in undergraduate science education in the past decade. Project is multi-method synthesis in collaboration with four other research institutions.

- Funded by the National Science Foundation Award Number 2201795.
- Under the instruction of Dr. Marcos (Danny) Caballero.

## WHO AM I?

An interdisciplinary scientist utilizing computational tools to explore questions about data science & computing education.

## SKILLS

Python

R

LaTeX

JavaScript

HTML

Artificial Intelligence

Machine Learning

Critical Thinking

Problem Solving

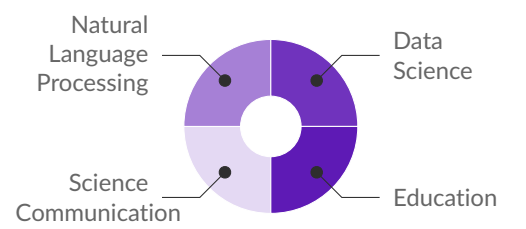
Leadership

Written & Verbal Communication

Microsoft Office

Google Applications

## CURRENT INTERESTS



Using Social Network Analysis techniques to analyze and model data in R from a messaging platform consisting of interactions between instructors at various institutions, who are seeking to better incorporate computation into their traditional STEM courses.

- Funded through the Michigan State University Graduate Office Fellowship.
- Under the instruction of Dr. Marcos (Danny) Caballero.

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## Statistics Honors Student

**Moravian College**

📅 May 2019 - May 2020

📍 Bethlehem, PA

Built a linear Measurement Error Model in R and successfully defended an undergraduate honors thesis to understand the relationship between dietary intake, body composition, and energy expenditure in pre-professional, contemporary dancers.

- Completed under the instruction of Dr. Brenna Curley.

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## Undergraduate Research Assistant

**Michigan State University**

📅 May 2019-July 2019

📍 East Lansing, MI

Participated in the Institute for Cyber-Enabled Research Advanced Computational Research Experience for Students, a National Science Foundation Funded Research Experience for Undergraduates (iCER ACRES NSF REU). Built a deep learning TensorFlow Python framework to model the prediction of optimal plant traits from a genetics database. Model was a part of a larger project comparing the effectiveness of various models in predicting plant traits.

- Completed under the instruction of Dr. Shin-Han Shiu and Dr. Christina Azodi.

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# TEACHING EXPERIENCE

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## Data Science Preceptor - Data Science Institute

**University of Chicago**

📅 Aug 2026 - July 2028

📍 Chicago, IL

Teach data science and related courses at the University of Chicago and the City Colleges of Chicago. Participate in professional development opportunities and mentoring opportunities in creating inclusive learning environments.

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## Graduate Teaching Assistant - CMSE Department

**Michigan State University**

📅 Aug 2020 - Dec 2022

📍 East Lansing, MI

Assist faculty with classroom instruction. Guide and mentor small groups of students through in class assignments. Hold twice weekly office hours to assist students in classwork. Provide students with constructive, graded feedback on their assignments.

- CMSE 201: Introduction to Computational Modeling and Data Analytics with Dr. Thomas Finzell
  - Fall 2020 (remote), Spring 2021 (remote), Fall 2021 (in-person)
- CMSE 381: Fundamentals of Data Science Methods with Dr. Elizabeth Munch
  - Spring 2022 (hybrid), Fall 2022 (in-person)

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## Curriculum Development

**Michigan State University**

📅 June 2021 - Aug 2026

📍 East Lansing, MI

Developed and refined current curriculum materials for introductory data science and computing course. Topics include data and algorithmic bias, ethics, data context, and code visualization. Course uses Jupyter Notebook class assignments managed through a GitHub Repository.

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## Academic Tutor

**Moravian College**

📅 Sept 2015-Aug 2020

📍 Bethlehem, PA

Tutored peer students in collegiate level Mathematics and Economics courses. Tutored local students in high school and middle school mathematics courses. Provided skills assistance related to problem solving and exam preparation.

## WORK EXPERIENCE

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### Summer Intern

**Los Alamos National Laboratory (LANL)**

📅 June 2023-Aug 2023

📍 Los Alamos, NM

Developed a machine learning GUI framework using Python, JavaScript, HTML, and Py-Script. Tool will be used by scientists at LANL to perform machine learning tasks on data they chose.

- Worked in the Information Science & Technology Institute under Director Dr. Jim Ahrens.
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### Summer Intern

**Willis Towers Watson**

📅 June 2018-Aug 2018

📍 New York City, NY

Created risk management analysis models for insurance brokers to use with their clients. Compiled and organized model usage data for frequency analysis. Created and edited marketing storyboards to explain the analytical tools purpose and benefits.

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### Summer Extern

**AT&T Summer Externship**

📅 July 2020

📍 Online

Improved professional and personal skills through completing 80+ hours of the 2020 AT&T Summer Learning Academy self-paced online courses and live-event speaker workshops.

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## MENTORING

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### Research Mentorship to Students

**Michigan State University**

📅 May 2022 - Aug 2026

📍 East Lansing, MI

#### Graduate Students

- Cassandra Lem, Current PhD Student at Michigan State University
- Dawson Kinsman, Current PhD Student at Michigan State University

#### Undergraduate Students

- Marius Nwobi, Current Master's Student at Carnegie Mellon University
  - Anthony Kosinski, Current Undergraduate Student at Michigan State University
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### Peer Mentorship

**Michigan State University**

📅 August 2021 - Aug 2026

📍 East Lansing, MI

- GWIS Undergraduate Mentorship Program (2 students)
  - CMSE DEI Committee Peer Mentorship Program (3 students)
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### Letters to a Pre-Scientist

**Pen Pal**

📅 Aug 2022-May 2023, Aug 2024-May 2025

📍 East Lansing, MI

Exchange letters with a middle school student interested in learning more about STEM-related careers.

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### ACRES REU Graduate Student Mentor

**Michigan State University**

📅 May 2022 - July 2022

📍 East Lansing, MI

Led weekly professional development workshops covering topics such as conducting literature reviews, applying to PhD programs, and developing a research poster. Held social events for students in the REU.

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### Mentor for Undergraduate Research Course

**Moravian College**

📅 Jan 2019-May 2020

📍 Bethlehem, PA

Assisted first- and second-year students in semester-long mathematics course with writing a formal research paper, designing a poster presentation, and creating a formal presentation on their research. Course taught by Dr. Nathan Shank.

# LEADERSHIP AND SERVICE

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## Graduate Women in Science Mid-Michigan Chapter

**President, National Member**

📅 Jan 2022-Aug 2026

📍 East Lansing, MI

Host and organize monthly executive board meetings. Oversee and assist where needed with all operations of the Mid-Michigan organization. Communicate with GWIS National. Organizing mentoring program for undergraduate students interested in pursuing STEM careers. Volunteer and coordinate STEM outreach events focused on science learning for K-12 students.

- *Past Positions: Co-Chair, Girls Math and Science Day Committee (June 2022- June 2024); Chair, Undergraduate Mentoring Program (June 2022 - June 2023)*

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## University Service

**Committee Member**

📅 Aug 2020 - Present

📍 East Lansing, MI

- CMSE Graduate Program Coordinator Search; MSU; Committee Member; Jan 2025-March 2025
- CMSE Graduate Student Diversity, Equity, and Inclusion Committee; MSU; Graduate Student Mentor, Minutes Moderator, Member; Aug 2020-May 2024
- CMSE Graduate Student Organization; MSU; Admissions and Recruitment Liaison (Jan 2024-May 2024); Treasurer (Aug 2021 - Aug 2022)
- Math Society; Moravian College; President, Treasurer, Member; Aug 2016-May 2020

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## Moravian College Dance Company

**President, Treasurer/Secretary, Choreographer** 📅 Aug 2016-May 2020

📍 Bethlehem, PA

Led discussions with fellow collegiate board members as well as faculty members on dance program improvements. Negotiated larger, newly renovated dance company rehearsal space. Managed various fundraising activities. Developed faculty-approved criteria and achieved inaugural formal dance minor at Moravian College.

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# PROFESSIONAL DEVELOPMENT

## 👥 Organized Workshops

- **Bolger, Emily**, Sona Chitchyan, Dawson Kinsman, Cassandra Lem, and Rachel Roca. Reality Check: Spotting AI Shenanigans. *Michigan State University Museum: Blurred Realities*. East Lansing, Michigan, Jan. 2026.
- Silvia, Devin W., Marcos D. Caballero, Thomas Finzell, Rachel Frisbie, Patti Hamerski, **Emily Bolger**, Sarah Castle, Rachel Roca, and Paige Tourangeau. Computing in Support of Disciplinary Learning. *Proceedings of the 54th ACM Technical Symposium on Computer Science Education V. 2. Association for Computing Machinery*. Toronto, Ontario, Canada, Mar. 15-18, 2023. doi: [10.1145/3545947.3573341](https://doi.org/10.1145/3545947.3573341).

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## 👥 Selected Workshop Attendance

- Impactful curriculum development in mathematics: open education resources for future research. *American Institute of Mathematics*. Pasadena, California, USA, July 2025, **Invited Panelist** for "Navigating the politics of institutions, colleagues, the state, and the country" Panel.
- ComSciCon-Michigan 2024. *ComSciCon*. East Lansing, Michigan, USA, Oct. 2024.
- Data Visualization and Science Communication. *MSU Museum: Science on a Sphere*. East Lansing, Michigan, USA, Mar. 2024.
- Inclusive Workspaces. *Office for Institutional Diversity and Inclusion: Education and Development Programs*. East Lansing, Michigan, USA, Mar. 2024.
- Fundamentals of Equity in Graduate Admissions. *Inclusive Graduate Education Network (IGEN)*. East Lansing, Michigan, USA, Feb. 2024.
- Physics Education Research (PER) Summer Institute. *Center for Computing in Science Education*. [University of Oslo, Norway](https://www.unio.no/), June 2022.
- Understanding Levers of Change in Academia. *CIRTL Network*, Online, Nov. 2021.
- Classroom Strategies from a UDL Perspective. *MSU IT & MSU Hub*. East Lansing, Michigan, USA, July 2021.

- Bystander Intervention Workshop. *AdvanceGeo*. East Lansing, Michigan, USA, July 2021.

## Evaluators

- ACRES REU Student Final Presentations. July 2024.

## PRESENTED WORK

\* denotes presenting author(s)

### Peer-Reviewed Journal Articles

- **Bolger, Emily**, Rachel Renbarger, Taylor Boyd, Ying Wang, Marcos D. Caballero, Noah Finkelstein, Scott Simkins, Charles Henderson, and Andrea Beach. "Integrating Machine Learning into Systematic Literature Reviews: Advancing a Human-in-the-Loop Framework". *[Under Review]*, 2025.
- **Bolger, Emily**, Marius Nwobi, and Marcos D. Caballero. "Characterizing Faculty Online Learning Community Interactions Using Social Network Analysis". *Physical Review Physics Education Research*, vol. 21, 2 Oct. 2025, p. 020133. doi: [10.1103/n3yf-5h29](https://doi.org/10.1103/n3yf-5h29).
- Renbarger, Rachel, **Emily Bolger**, Ying Wang, Taylor Boyd, Noah Finkelstein, Charles Henderson, and Andrea Beach. "Conducting Complex and Large-Scale Meta-Syntheses with Machines and Interdisciplinary Teams: Overcoming Challenges with Evidence". *[Under Review]*, 2025.
- Wang, Ying, Rachel Renbarger, Taylor Boyd, **Bolger, Emily**, Noah Finkelstein, Charles Henderson, Marcos D. Caballero, Andrea Beach, and Scott Simkins. "Facilitating Systemic Change in Undergraduate Engineering Education: A Literature Meta-synthesis on Change Strategies". *[Under Review]*, 2025.
- Azodi, Christina B., **Emily G. Bolger**, Andrew McCarren, Mark Roantree, Gustavo de los Campos, and Shin-Han Shiu. "Benchmarking Parametric and Machine Learning Models for Genomic Prediction of Complex Traits." *G3: Genes | Genomes | Genetics*, 2019, [Link here](#).

### Peer-Reviewed Conference Proceedings

- Renbarger\*, Rachel, Ying Wang, Taylor Boyd, **Emily Bolger**, Matthew Ison, Noah Finkelstein, Charles Henderson, Andrea Beach, Scott Simkins, and Marcos D. Caballero. [Poster Presentation]. "ECR: Creating transformational STEM education: A metasynthesis mapping a decade of systemic change research". American Society for Engineering Education Annual Conference. Charlotte, North Carolina, USA, June 21-24, 2026.
- Wang\*, Ying, Rachel Renbarger\*, Taylor Boyd, **Emily Bolger**, Noah Finkelstein, Charles Henderson, M. Danny Caballero, Andrea Beach, and Scott Simkins. [Paper Presentation]. "Change strategies in undergraduate STEM education: A meta-synthesis and update of a decade of research". American Educational Research Association Annual Meeting. Los Angeles, California, USA, Apr. 8-12, 2026.
- Renbarger\*, Rachel, Ying Wang\*, Taylor Boyd, **Emily Bolger**, Noah Finkelstein, Charles Henderson, M. Danny Caballero, Andrea Beach, and Scott Simkins. [Paper Presentation]. "Making Equitable Change: A Meta-Synthesis of Instructional Change Efforts for Marginalized Student Groups". American Educational Research Association Annual Meeting. Los Angeles, California, USA, Apr. 8-12, 2026.
- Wang, Ying, **Emily Bolger**, Rachel Renbarger, Taylor Boyd, Noah Finkelstein\*, Charles Henderson, Andrea Beach, Scott Simkins, and Marcos D. Caballero. [Poster Presentation]. "ECR: Facilitating Change in Undergraduate STEM: A Multidisciplinary, Multimethod, Meta-synthesis Mapping a Decade of Growth". American Society for Engineering Education Annual Conference. Montreal, Quebec, Canada, June 22-25, 2025, doi: [10.18260/1-2--55728](https://doi.org/10.18260/1-2--55728).
- **Bolger, Emily\***, Ying Wang, Rachel Renbarger\*, M. Danny Caballero, Marius Nwobi, Cassandra Lem, Noah Finkelstein, Scott Simkins, Taylor Boyd, Charles Henderson, and Andrea Beach. [Paper Presentation]. "Integrating machine learning into systematic reviews: Strengthening evidence synthesis". American Educational Research Association Annual Meeting. Denver, Colorado, USA, Apr. 23-27, 2025, doi: <https://doi.org/10.3102/2184958>.
- **Bolger, Emily\*** and Marcos D. Caballero. [Poster Presentation]. "Exploring the Impact of Unsupervised Clustering Methods in Systematic Literature Reviews". *Proceedings of the 56th ACM Technical Symposium on Computer Science Education V. 2*. Association for Computing Machinery. Pittsburgh, Pennsylvania, USA, Feb. 26-1, 2025, doi: [10.1145/3641555.3705184](https://doi.org/10.1145/3641555.3705184).
- **Bolger, Emily\*** and Marcos D. Caballero. [Lightning Talk Presentation]. "Using Natural Language Processing to Explore Instructional Change Strategies in Undergraduate Science Education Literature". *Proceedings of the 55th ACM Technical Symposium on Computer Science Education V. 2*. Association for Computing Machinery. Portland, Oregon, USA, Mar. 20-23, 2024, doi: [10.1145/3626253.3635341](https://doi.org/10.1145/3626253.3635341).

## Peer-Reviewed Conference Presentations

- **Bolger, Emily\***. [Poster Presentation]. Developing Thoughtful Scientists through an Introduction to Data Science Course. *Electronic Conference On Teaching Statistics (eCOTS)*. Online, June 10-13, 2024.
- **Bolger, Emily\***, and Marcos D. Caballero. [Oral & Poster Presentation]. Using Natural Language Processing to Explore Instructional Change Strategies in Undergraduate Science Education Literature. *Symposium for Data Science & Statistics (SDSS)*. Richmond, Virginia, USA, June 4-7, 2024.
- **Bolger, Emily\***, and Brenna Curley. [Poster Presentation]. Nutrient Intake of Dancers: A Measurement Error Analysis Approach. *Annual Moravian College Honors Program*. Bethlehem, Pennsylvania, USA, Apr. 2020.

## Invited Talks

- **Bolger, Emily\***, and Marcos D. Caballero. Using AI Techniques in Systematic Literature Reviews. *CREATE for STEM Community Talks*. East Lansing, Michigan, USA, Oct. 2025.
- **Bolger, Emily\***, and Rachel Roca\*. Data Dilemmas: Ethics in an Algorithmic World. *Mathematical Association of America (MAA): MathFest*. Sacramento, California, USA, Aug. 2025.
- **Bolger, Emily\***, Rachel Roca\*, and Rachel Frisbie\*. Theory to Practice: Implementing Data Feminism Across an Undergraduate Data Science Curriculum. *Ferris State University*. Big Rapids, Michigan, USA, Mar. 2025.

## Contributed Work

- Frisbie\*, Rachel, Rachel Roca\*, **Emily Bolger\***, Victor Piercey\*, and Ishita LNU [Panel Presentation]. Cross-Institutional Collaboration for Experiential Learning in Ethical STEM Practices. *MSU Spring Teaching and Learning Knowledge Sharing (TALKS): Center for Teaching & Learning*. East Lansing, Michigan, USA, May 6, 2026.
- **Bolger, Emily\***, Dawson Kinsman\*, and Marcos (Danny) Caballero [Oral Presentation]. Comparing the Integration of Statistical and Text Embedding Methods in Systematic Literature Reviews. *AI for Qualitative Physics Education Research*. Center for Computing in Science Education (CCSE). University of Oslo. Oslo, Norway., Apr. 23, 2026.
- Henderson, Charles\*, Ying Wang, **Emily Bolger**, Rachel Renbarger, Taylor Boyd, Noah Finkelstein, Andrea Beach, Marcos D. Caballero, Scott Simkins, and Matthew Ison. [Oral Presentation]. Facilitating Change in Undergraduate STEM: A Multidisciplinary, Multimethod, Metasynthesis Mapping a Decade of Growth. *APS Global Physics Summit*. Denver, Colorado, USA, Mar. 2026.
- Cook\*, Christine, Maria Wendeln\*, Rachel Roca\*, **Emily Bolger\***, and D'Arcy Cook\*. [Oral Presentation]. Teaching How to Form and Be in Community. *Berkshire Conference of Women Historians*. Chicago, Illinois, USA, Jan. 9, 2026.
- **Bolger, Emily\***, and Marcos (Danny) Caballero. [Poster Presentation]. Exploring the Impact of Unsupervised Clustering Methods in Systematic Literature Reviews. *CMSE 10 Year Anniversary Conference*. East Lansing, Michigan, USA, Aug. 19, 2025.
- **Bolger, Emily\***, and Marcos D. Caballero. [Poster Presentation]. Exploring the Impact of Unsupervised Clustering Methods in Systematic Literature Reviews. *CREATE for STEM: Mini-Conference*. East Lansing, Michigan, USA, May 14, 2025.
- **Bolger, Emily\***, and Rachel Roca\* [Oral Presentation]. Data Dilemmas: Ethics in an Algorithmic World. *MSU Spring Teaching and Learning Knowledge Sharing (TALKS): Center for Teaching & Learning*. East Lansing, Michigan, USA, May 8, 2025.
- Kosinki, Anthony\*, **Emily Bolger**, and Marcos D. Caballero. [Poster Presentation]. Topic Analysis of Academic Articles on Undergraduate Instructional Change Strategies in STEM Education. *University Undergraduate Research and Arts Forum (UURAF)*. East Lansing, Michigan, USA, Apr. 2025.
- Henderson, Charles\*, **Emily Bolger**, Taylor Boyd, Ying Wang, Andrea Beach, Marcos D. Caballero, Noah Finkelstein, Rachel Renbarger, and Scott Simkins. [Oral Presentation]. Facilitating Change in Undergraduate STEM: A Multidisciplinary, Multimethod, Metasynthesis Mapping a Decade of Growth. *APS Global Physics Summit*. Anaheim, California, USA, Mar. 2025.
- **Bolger, Emily\***, and Marcos D. Caballero. [Poster Presentation]. Exploring the Impact of Unsupervised Clustering Methods in Systematic Literature Reviews. *Council of Graduate Students 17th Annual Graduate Academic Conference*. East Lansing, Michigan, USA, Feb. 2025.
- **Bolger, Emily\***, Marcos D. Caballero, and Daryl McPadden. [Poster Presentation]. Analyzing Slack Messages of Physics Instructors Using Social Network Analysis. *Oslo Physics Education Research Summer Institute*. Oslo, Norway, June 2022.
- **Bolger, Emily\***, Marcos D. Caballero, and Daryl McPadden. [Poster Presentation]. Characterizing Community Interactions Among Faculty Using Social Network Analysis. *2nd Annual CMSE Data Science Student Conference*. East Lansing, Michigan, USA, Nov. 2022.

- **Bolger, Emily\***, Christina Azodi, and Shin-Han Shiu. [Poster Presentation]. Genomic Prediction of Traits Using Convolutional Neural Networks. *Mid-Michigan Symposium for Undergraduate Research Experiences (MidSURE)*. East Lansing, Michigan, USA, July 2019.
- **Bolger, Emily\***, and Brenna Curley. [Oral Presentation]. Nutrient Intake of Dancers: A Measurement Error Analysis Approach. *The 15th Annual Student Scholarship and Creative Endeavors Day and Moravian College Mathematics Society Epsilon Series*. Bethlehem, Pennsylvania, USA, Apr. 2019.
- **Bolger, Emily\***. [Oral Presentation]. Genomic Prediction of Traits Using Convolutional Neural Networks. *Moravian College Mathematics Society Epsilon Series*. Bethlehem, Pennsylvania, USA, 2019.
- **Bolger, Emily**. Undergraduate Honors Thesis: Nutrient Intake of Dancers: A Measurement Error Analysis Approach. 2020.

## Media

- **Bolger, Emily**. "Finding the Pattern: How Machine Learning is Helping Researchers Navigate STEM Education", Sept. 2026, Written by Kyan Camarillo and Michelle David.
- Graduate Women in Science. "Girls in Math and Science Day welcomes young scientists with unique STEM experiences", Mar. 2026, Written by Abigail Hosler.
- Piercey, Victor, Rachel Frisbie, **Emily Bolger**, and Rachel Roca. "When data isn't neutral: MSU students confront the hidden ethical history of STEM in Zekelman Holocaust Center collaboration", Jan. 2026, Written by Bethany Mauger.
- Piercey, Victor, Rachel Frisbie, **Emily Bolger**, and Rachel Roca. "Remembering to prevent: New Ferris State partnership examines STEM's role in the Holocaust and its modern implications", May 2025, Written by Phil de Haan.
- Bolger, Emily. "Emily Bolger on Understanding the Role of Machine Learning and Text Analysis on Systematic Literature Reviews". *The Sci-Files on Impact 89FM*,. Apr. 2025.
- Bolger, Emily. "Episode 83 - Emily Bolger". *Journeys of a Scientist*, July 2022.