

JENNIFER L. GREEN | *Curriculum Vitae*

Michigan State University, Department of Statistics and Probability, Program in Mathematics Education,
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EDUCATION

- 2010 Ph.D. Statistics, University of Nebraska-Lincoln
Dissertation: *Estimating Teacher Effects using Value-added Models*
Advisor: Dr. Erin E. Blankenship
- 2006 M.S. Statistics, University of Nebraska-Lincoln
- 2004 B.S. Secondary Education (Mathematics), Chadron State College, *Summa cum laude*

PROFESSIONAL EXPERIENCE

Michigan State University
Department of Statistics and Probability; Program in Mathematics Education
2020 - present Associate Professor

Montana State University
Department of Mathematical Sciences

2018 - 2020 Associate Professor
2013 - 2018 Assistant Professor

University of Nebraska-Lincoln
Department of Statistics; Center for Science, Mathematics, and Computer Education

2010 - 2013 Research Assistant Professor
Research Supervisors: Dr. William (Jim) Lewis, Dr. Walter W. Stroup

2007 - 2010 Graduate Research Assistant

2004 - 2010 Graduate Teaching Assistant

Acton Marketing LLC

2005 - 2006 Statistician

HONORS AND AWARDS

Major Awards

- 2024 Outstanding Graduate Academic Advisor Award, College of Natural Science, Michigan State University
- 2020 Distinguished Young Alumna Award, Chadron State College
- 2019 Ron Wasserstein Award for Best Contributed Paper sponsored by the Statistical Education Section at the 2018 Joint Statistical Meetings, American Statistical Association
- 2017 Outstanding Teaching Award, College of Letters and Science, Montana State University
- 2014 Excellence Award for Best Paper by an Early Career Author at the 9th International Conference on Teaching Statistics, International Association for Statistical Education

- 2014 Jackie Dietz 2013 Best *Journal of Statistics Education* Paper Award, American Statistical Association
- 2013 Junior Faculty Holling Family Award for Teaching Excellence, University of Nebraska-Lincoln
- 2009 Outstanding Graduate Teaching Assistant Award, University of Nebraska-Lincoln

Other Honors and Nominations

- 2023 Thank an Educator, #iteachmsu, Michigan State University
"Dr. Green truly is my favorite statistics professor. Her passion and love for her subject is clearly shown in her smile every time a student asks a question. Throughout this last semester, her enthusiasm and kindness have impacted me in a very positive manner. I was really intimidated going into her STT442 class as I felt like I would not do well in an advanced stats class but the way she broke down every concept and was always eager to answer questions quickly changed that. Thank you so much for that Dr. Green!!"
- 2023 Outstanding Faculty Mentor Award (Nominated), The Graduate School, Michigan State University
- 2022 Faculty Success Program Registration Award, Provost's Office, Michigan State University
- 2019 Research Enhancement Award, College of Letters & Science, Montana State University
- 2018 Fox Faculty Award for Outstanding Teaching, Research, Scholarship, Creativity and Mentorship (Nominated), Montana State University
- 2018 Research Enhancement Award, College of Letters & Science, Montana State University
- 2017 Fox Faculty Award for Outstanding Teaching, Research, Scholarship, Creativity and Mentorship (Nominated), Montana State University
- 2016 Travel Award for College Mathematics Instructor Development Source (CoMInDS) Summer Workshop, Mathematical Association of America
- 2016 Research Enhancement Award, College of Letters & Science, Montana State University
- 2015 James & Mary Ross Provost's Award for Excellence (Nominated), College of Letters & Science, Montana State University
- 2015 Certificate of Teaching Enhancement, Montana State University
- 2014 Center for Faculty Excellence Member, Montana State University
- 2013 Research Travel Award, University of Nebraska-Lincoln
- 2012 Research Travel Award, University of Nebraska-Lincoln
- 2009 United States Conference on Teaching Statistics Graduate Student Registration Grant
- 2008 Larrick Student Research Travel Award, University of Nebraska-Lincoln
- 2006 Milton E. Mohr Teaching Fellowship, University of Nebraska-Lincoln
- 2004 Mary and Charles C. Cooper/Emma I. Sharpless Fellowship, University of Nebraska-Lincoln

PUBLICATIONS

Except where noted, coauthored publications represent equal contributions from a fully collaborative partnership.

**Graduate Student, *Post-doctoral Researcher

Peer-Reviewed Publications

- 18. **Meyer, E. S., **Green, J. L.**, Arnold, E. G., & Wickstrom, M. (2025). Understanding how and when graduate student instructors break through challenges with active learning. *International Journal of Research in Undergraduate Mathematics Education*, 11(2), 241-273. DOI: [10.1007/s40753-024-00240-8](https://doi.org/10.1007/s40753-024-00240-8)

17. **Stratton, C., Hoegh, A., Rodhouse, T. J., **Green, J. L.**, Banner, K. M., & Irvine, K. M. (2024). Clustering and unconstrained ordination with Dirichlet process mixture models. *Methods in Ecology and Evolution*, 15(9), 1720-1732. DOI: [10.1111/2041-210X.14389](https://doi.org/10.1111/2041-210X.14389)
16. **Arnold, E. G., & **Green, J. L.** (2023). Exploring the use of statistics curricula with annotated lesson notes. *Journal of Statistics and Data Science Education*, 31(2), 162-172. DOI: [10.1080/26939169.2022.2099486](https://doi.org/10.1080/26939169.2022.2099486)
15. **Stratton, C. A., **Green, J. L.**, & Hoegh, A. (2021). Not just normal: Exploring power with Shiny apps. *Technology Innovations in Statistics Education*, 13(1), 1-37. DOI: [10.5070/T513146468](https://doi.org/10.5070/T513146468)
14. **Green, J. L.**, Smith, W. M., Kerby, A. T., Blankenship, E. E., Schmid, K. K., & Carlson, M. A. (2018). Introductory statistics: Preparing in-service middle-level mathematics teachers for classroom research. *Statistics Education Research Journal*, 17(2), 216-238. DOI: [10.52041/serj.v17i2.167](https://doi.org/10.52041/serj.v17i2.167)
13. Broatch, J., **Green, J. L.**, & Karl, A. (2018). RealVAMS: An R package for fitting a multivariate value-added model (VAM). *The R Journal*, 10(1), 22-30. DOI: [10.32614/RJ-2018-033](https://doi.org/10.32614/RJ-2018-033)
12. *Kutaka, T. S., **Ren, L., Smith, W. M., Beattie, H. L., Edwards, C. P., **Green, J. L.**, Chernyavskiy, P., Stroup, W., Heaton, R. M., & Lewis, W. J. (2018). Examining change in K-3 teachers' mathematical knowledge, attitudes, and beliefs: The case of Primarily Math. *Journal of Mathematics Teacher Education*, 21(2), 147-177. DOI: [10.1007/s10857-016-9355-x](https://doi.org/10.1007/s10857-016-9355-x)
11. **Green, J. L.**, Stroup, W. W., & **Fellers, P. S. (2017). Defining program effect: A value-added mixed model perspective. *Statistics and Public Policy*, 4(1), 1-10. DOI: [10.1080/2330443X.2017.1369914](https://doi.org/10.1080/2330443X.2017.1369914)
10. **Green, J. L.**, Schmitt-Wilson, S., Versland, T., Kelting-Gibson, L., & **Nollmeyer, G. (2016). Teachers and data literacy: A blueprint for using professional development to foster data driven decision making. *Journal of Continuing Education and Professional Development*, 3(1), 14-32. [Online: https://www.researchgate.net/publication/302922544_Teachers_and_Data_Literacy_A_Blueprint_for_Professional_Development_to_Foster_Data_Driven_Decision_Making]
9. Hildreth, L. A., **Green, J. L.**, & Soll, N. (2016). Expanding your horizons. *Teaching Statistics*, 38(2), 72. DOI: [10.1111/test.12103](https://doi.org/10.1111/test.12103)
8. **Ren, L., **Green, J. L.**, & Smith, W. M. (2016). Using the Fennema-Sherman Mathematics Attitude Scales with lower primary teachers. *Mathematics Education Research Journal*, 28(2), 303-326. DOI: [10.1007/s13394-016-0168-0](https://doi.org/10.1007/s13394-016-0168-0)
7. Hildreth, L. A., & **Green, J. L.** (2016). Using pig die and simulation to explore probability and expected values. *Teaching Statistics*, 38(2), 67-71. DOI: [10.1111/test.12102](https://doi.org/10.1111/test.12102)
6. **Green, J. L.**, & Blankenship, E. E. (2015). Fostering conceptual understanding in mathematical statistics. *The American Statistician: Special Issue on Undergraduate Programs*, 69(4), 315-325. DOI: [10.1080/00031305.2015.1069759](https://doi.org/10.1080/00031305.2015.1069759)
5. Schmid, K. K., Blankenship, E. E., Kerby, A. T., **Green, J. L.**, & Smith, W. M. (2014). The development and evolution of an introductory statistics course for in-service middle-level mathematics teachers. *Journal of Statistics Education*, 22(3). DOI: [10.1080/10691898.2014.11889715](https://doi.org/10.1080/10691898.2014.11889715)
4. **Green, J. L.**, & Blankenship, E. E. (2014). Beyond calculations: Fostering conceptual understanding in statistics graduate teaching assistants. *Proceedings of the Ninth International Conference on*

Teaching Statistics. [Online:
http://icots.info/icots/9/proceedings/pdfs/ICOTS9_3A3_GREEN.pdf?1405041598]

3. **Green, J. L.**, & Blankenship, E. E. (2013). Primarily statistics: Developing an introductory statistics course for pre-service elementary teachers. *Journal of Statistics Education*, 21(3), DOI: [10.1080/10691898.2013.11889683](https://doi.org/10.1080/10691898.2013.11889683)
2. Friedow, A., Blankenship, E. E., **Green, J. L.**, & Stroup, W. W. (2012). Learning interdisciplinary pedagogies. *Pedagogy*, 12(3), 405-424. DOI: [10.1215/15314200-1625235](https://doi.org/10.1215/15314200-1625235)
1. **Green, J. L.** (2010). Teaching highs and lows: Exploring university teaching assistants' experiences. *Statistics Education Research Journal*, 9(2), 108-122. DOI: [10.52041/serj.v9i2.379](https://doi.org/10.52041/serj.v9i2.379)

Edited Book Chapters

2. **Green, J. L.**, **Manski, S. E., **Hanson, T. A., & Broatch, J. E. (2023). Descriptive statistics. In R. J. Tierney, F. Rizvi, & K. Erkican (Eds.), *International Encyclopedia of Education* (4th Ed.), Vol. 14, p. 723-733. Elsevier. DOI: [10.1016/B978-0-12-818630-5.10083-1](https://doi.org/10.1016/B978-0-12-818630-5.10083-1)
1. Broatch, J. E., **Manski, S. E., & **Green, J. L.** (2023). Statistics: Value-added models. In R. J. Tierney, F. Rizvi, & K. Erkican (Eds.), *International Encyclopedia of Education* (4th Ed.), p. 390-396. Elsevier. DOI: [10.1016/B978-0-12-818630-5.10048-X](https://doi.org/10.1016/B978-0-12-818630-5.10048-X)

Conference Proceedings

1. **Green, J. L.**, Stroup, W. W., Smith, W. M., & Heaton, R. M. (2011). Connecting the pieces: Methodology for developing student achievement trajectories from different instruments. *Proceedings of the 2011 Math Science Partnerships Learning Network Conference*. [Online: <http://hub.mspnet.org/index.cfm/22684>]

Software

1. Karl, A., Broatch, J., & **Green, J.** (2023). RealVAMS: Multivariate VAM Fitting (Version 0.4-5) [R package]. [Online: <http://cran.r-project.org/web/packages/RealVAMS/index.html>]

GRANTS

Funded – External

- | | |
|------------------|--|
| 7/2023 - 6/2026 | <i>Collaborative research: Modules for Statistics graduate teaching assistants learning to teach equitably with authentic data (GTAs-LEAD)</i>
National Science Foundation IUSE DUE 2315435
Role: Principal Investigator
Total Award: \$124,354 (Michigan State University)
Collaborator: Sunghwan Byun (PI, North Carolina State University, lead institution) |
| 10/2020 - 9/2025 | <i>Developing validated instruments to measure student/faculty attitudes in under-graduate statistics and data science education</i>
PI: Alana Unfried, California State University, Monterey Bay
National Science Foundation DUE 20133392
Role: External Evaluator
Total Award: \$599,998 |

- 10/2020 - 9/2024 *Collaborative research: Improving the preparation of college mathematics instructors to implement student-centered, inclusive teaching*
 PI: Sean Yee, South Carolina University
 National Science Foundation IUSE DUE 2020952
 Role: **Expert Provider**
 Total Award: \$180,000
- 9/2017 - 8/2022 *NRT-IGE: Fostering effective communication skills for STEM graduate students*
 PI: Shannon Willoughby, Department of Physics, Montana State University
 National Science Foundation DGE 1735124
 Role: **Co-Principal Investigator**
 Total Award: \$481,482
- 9/2014 - 8/2017 *Integrating mathematical modeling, experiential learning and research through a sustainable infrastructure and online network for teachers in the elementary grades*
 PI: Elizabeth Burroughs, Dept. of Mathematical Sciences, Montana State University
 National Science Foundation DRL 1441024
 Role: **Senior Personnel**
 Total Award: \$425,730 (\$1,348,892 across all sites – George Mason University, lead institution; Montana State University; Harvey Mudd College)
- 10/2013 - 3/2017 *Collaborative research: RealVAMS-Getting real-world value from value-added models*
 PI: Walter Stroup, Department of Statistics, University of Nebraska-Lincoln
 National Science Foundation DGE 1336265
 Role: **Co-Principal Investigator / Former Principal Investigator***
 Total Award: \$89,925 (MSU Subaward: \$35,239)
 Collaborator: Jennifer Broatch (PI, Arizona State University, lead institution)
- *Note: I was PI while research faculty at UNL. When I joined MSU in 8/2013, UNL chose to keep the grant centered there and funded my portion as a subaward.*
- 1/2015 - 12/2015 *Creating data literacy in eastern Montana rural schools*
 PI: Tena Versland, Department of Education, Montana State University
 Office of the Commissioner of Higher Education, Title II Improving Teacher Quality
 Role: **Co-Principal Investigator**
 Total Award: \$71,106
- 6/2011 - 4/2015 *Data connections: Developing a coherent picture of mathematics teaching and learning*
 PI: Walter Stroup, Department of Statistics, University of Nebraska-Lincoln
 National Science Foundation DRL 1050667
 Role: **Co-Principal Investigator**
 Total Award: \$1,213,475 (MSU Subaward: \$10,269**)
- **Note: When I joined MSU in 8/2013, I brought my remaining portion as a subaward.*
- 1/2014 - 12/2014 *Creating a culture of data-driven decision making: Training educators in data analysis to improve instruction and academic achievement*
 PI: Tena Versland, Department of Education, Montana State University
 Office of the Commissioner of Higher Education, Title II Improving Teacher Quality
 Role: **Co-Principal Investigator**
 Total Award: \$99,023

Funded - Internal

- | | |
|------------------|--|
| 8/2016 - 12/2016 | <i>Statistical methodology and software for evaluating educational programs</i>
ADVANCE Project TRACS, MSU Faculty Excellence Grants Program
Role: Principal Investigator
Total Award: \$5,000 |
| 8/2014 - 6/2015 | <i>Graduate teaching assistant development: Enhancing instruction in gateway and barrier courses in the mathematical sciences</i>
Performance Funding Investment, Montana State University
Role: Principal Investigator
Total Award: \$26,500 |
| 7/2014 - 6/2015 | <i>Graduate teaching assistant development: Fostering an intellectual teaching community in the Department of Mathematical Sciences</i>
MSU Center for Faculty Excellence, Instructional Innovation Grants Program
Role: Principal Investigator
Total Award: \$1,380 |
| 1/2015 - 5/2015 | <i>Multi-institutional, interdisciplinary STEM research</i>
ADVANCE Project TRACS, MSU Faculty Excellence Grants Program
Role: Principal Investigator
Total Award: \$5,000 |

PRESENTATIONS

*Presenting Author(s) for Coauthored Presentations, ++Graduate Student, +Post-doctoral Researcher

Invited Conference Presentations

16. ***Green, J. L.**, ++Cruciani, M., & *Arnold, E. G. *The current landscape of statistics instruction in high school intermediate algebra* (invited poster). Joint Statistical Meetings, Nashville, TN, August, 2025.
15. ***Green, J. L.**, ++Cruciani, M., & *Arnold, E. G. *Exploring statistics instruction in high school intermediate algebra courses: Results of a national survey*. Joint Statistical Meetings, Nashville, TN, August, 2025.
14. **Green, J. L.** *Effectively communicating environmental and ecological statistics to diverse audiences*. ENVR Workshop: Environmental and Ecological Statistical Research and Applications with Societal Impacts, Provo, UT, October, 2022.
13. ***Green, J. L.**, & *Blankenship, E. E. *Cutting through the theory: Emphasizing and assessing conceptual understanding in mathematical statistics*. Joint Statistical Meetings, Washington, D.C., August, 2022.
12. **Green, J. L.** *Expanding opportunities...to listen*. United States Conference on Teaching Statistics (virtual), June, 2021.
11. **Green, J. L.** *Learning through assessment: Challenging mathematical statistics students in novel ways*. Joint Statistical Meetings (virtual), July, 2020.

10. **Green, J. L.** *Ph.D. programs in statistics education: Department of mathematical sciences perspective.* International Conference of the ERCIM Working Group on Computational and Methodological Statistics, London, UK, December, 2019.
9. ***Green, J. L.**, *Stermann, L., & *Hughes, B., Willoughby, S., LaMeres, B., & Davis, K. *The art of storytelling: Communicating science with the public.* Women in Science and Engineering (WiSE) Conference, Bozeman, MT, October, 2019.
8. ***Green, J. L.**, Willoughby, S., LaMeres, B., Hughes, B., Sterman, L., Organ, C., & Davis, K. *The Art of storytelling: Engaging audiences with podcasts and curiosity cafes.* Joint Statistical Meetings, Denver, CO, July, 2019.
7. **Green, J. L.** *Dr. + Statistics = My journey through the unknown.* Expanding Your Horizons Conference, Bozeman, MT, March, 2019.
6. **Green, J. L.** *GAISE-ing into theory: Statistical thinking in mathematical statistics.* The Montana ActiveStatistics Conference, Helena, MT, June, 2018.
5. ***Green, J. L.**, & Blankenship, E. E. *Educating educators: Developing teachers of statistical thinking.* International Conference of the ERCIM Working Group on Computational and Methodological Statistics, London, UK, December, 2017.
4. *Blankenship, E. E., & **Green, J. L.** *Cutting through the theory: Emphasizing statistical thinking in mathematical statistics.* International Conference of the ERCIM Working Group on Computational and Methodological Statistics, London, UK, December, 2017.
3. **Green, J. L.** *Value-added modeling: A primer.* Joint Statistical Meetings, Seattle, WA, August, 2015.
2. ***Green, J. L.**, & *Gill, B. *Value-added models: An opportunity for local engagement.* Roundtable presentation at Council of Chapters Workshop, Joint Statistical Meetings, Boston, MA, August, 2014.
1. ***Green, J. L.**, *Blankenship, E. E., *Friedow, A., Stenberg, S., & *Stroup, W. W. *Fostering statistics TA development as writing instructors.* Joint Statistical Meetings, Washington, D.C., August, 2009.

Refereed Conference Presentations

41. *Arnold, E., ++Cruciani, M., & **Green, J.** *Exploring statistics teaching and practices in high school intermediate algebra: Insights into the statistical preparation of teachers.* Presentation at Math Fest, Sacramento, CA, August, 2025.
40. ++*Cruciani, M., ***Green, J. L.**, *Byun, S., ++Ferrell, M., & Post, J. *What does equitable teaching mean for statistics graduate teaching assistants?* Poster presentation at the United States Conference on Teaching Statistics Research Satellite, Ames, IA, July, 2025.
39. ++*Cruciani, M., *Arnold, E., & ***Green, J. L.** *Exploring statistics teaching and practices in high school intermediate algebra.* Poster presentation at the United States Conference on Teaching Statistics Research Satellite, Ames, IA, July, 2025.
38. *MacGillivray, H., *Witmer, J., *Peters, S., ***Green, J. L.**, & *Sanchez, J. *Can the usefulness of publishing models for statistics and data science education journals be improved?* Breakout session at the United States Conference on Teaching Statistics, Ames, IA, July, 2025.

37. ++*Cruciani, M., *Arnold, E., & ***Green, J. L.** *Teaching applications: Enhancing statistics instruction for secondary preservice teachers*. Breakout session at the United States Conference on Teaching Statistics, Ames, IA, July, 2025.
36. *Byun, S., ***Green, J. L.**, ++*Cruciani, M., ++*Ferrell, M., & *Post, J. *Modules to support statistics instructors in actively engaging students with authentic data*. Pre-conference workshop at the United States Conference on Teaching Statistics, Ames, IA, July, 2025.
35. ***Green, J. L.**, *Pathak, D., & ++*Cruciani, M. *Supporting graduate students' development as statistics educators*. Presentation at MSU Spring Teaching and Learning Knowledge Sharing (TALKS), East Lansing, MI, May, 2025.
34. ++*Cruciani, M., Arnold, E., & **Green, J. L.** *Exploring statistics instruction in high school intermediate algebra courses: Results from a national survey*. Report presentation at Annual Association of Mathematics Teacher Educators Conference, Reno, NV, February, 2025.
33. *Byun, S., ***Green, J. L.**, ++Cruciani, M., Post, J., & ++Ferrell, M. *Statistics GTAs' conceptualizations of equitable teaching*. Topic-contributed presentation at the Joint Statistical Meetings, Portland, OR, August, 2024.
32. ++*Cruciani, M., Post, J., **Green, J. L.**, & Byun, S. *Authentic data explorations: Investigating the Normal distribution through comparative rent data*. Poster presentation at the Electronic Conference on Teaching Statistics, June, 2024.
31. ++*Westby, K. R., & ***Green, J. L.** *Teacher learning about Disability in mathematics, statistics, and mathematics education classrooms*. Individual session at Annual Association of Mathematics Teacher Educators Conference, Orlando, FL, February, 2024.
30. *Hayat, M., Gould, R., ***Green, J. L.**, *Kaplan, J., *Le, L., *Peters, S., & *Zieffler A. *Demystifying the publishing process for statistics education journals*. Breakout session at the United States Conference on Teaching Statistics, State College, PA, June, 2023.
29. *Freeman, P., ***Green, J. L.**, & *Blankenship, E. E. *Performing meaningful assessment in a modernized mathematical statistics course sequence*. Breakout session at the Electronic Conference on Teaching Statistics, May, 2022.
28. ++*Meyer, E. S., **Green, J. L.**, & Arnold, E. G. *New perspectives on understanding graduate student instructors' longitudinal experiences with active learning*. Poster presentation at the United States Conference on Teaching Statistics (virtual), July, 2021.
27. ++*Stratton, C., & ***Green, J. L.** *Beyond normal: Understanding power with R shiny*. Poster presentation at the United States Conference on Teaching Statistics (virtual), June, 2021.
26. ***Green, J. L.**, *Broatch, J., *Dalzell, N., Jiroutek, M., *Kerby, A., *Rockoff, D., & *Ward, J. *Fostering connections and conversations between educators: ASA section on statistics and data science education mentoring program*. Breakout session at the Electronic Conference on Teaching Statistics, May, 2020.
25. *Arnold, E. G., ++*Meyer, E. S., & ***Green, J. L.** *Investigating future secondary mathematics teachers' development in statistics*. Breakout session at the United States Conference on Teaching Statistics, State College, PA, May, 2019.

24. ++*Meyer, E. S., **Green, J. L.**, & Arnold, E. G. *A longitudinal study of GTAs' experiences with active learning*. Poster presentation at the United States Conference on Teaching Statistics, State College, PA, May, 2019.
23. *Wickstrom, M., & **Green, J. L.** *Elementary teachers' receptiveness to mathematical modeling: Identifying and exploring beliefs, practices, and classroom structures*. Individual session at Annual Association of Mathematics Teacher Educators Conference, Orlando, FL, February, 2019.
22. ++*Meyer, E. S., & **Green, J. L.** *Statistics behind the skill: Cluster analysis and data visualization on disc golf data*. The Cascadia Symposium on Statistics in Sports, Vancouver, BC, August, 2018.
21. *Hyatt, M., ***Green, J. L.**, & *Justice, N. *ASA section on statistical education mentoring program*. Birds-of-a-Feather presentation at the Electronic Conference on Teaching Statistics, May, 2018.
[Online: <https://www.causeweb.org/cause/ecots/ecots18/birds-of-a-feather/6>]
20. ++*Meyer, E. S., **Green, J. L.**, & Arnold, E. G. *Graduate teaching assistants' evolving conceptualizations of active learning*. Poster presentation at the Electronic Conference on Teaching Statistics, May, 2018.
[Online: <https://www.causeweb.org/cause/ecots/ecots18/posters/2-04>]
19. ++*Stratton, C. A., & **Green, J. L.** *The power of technology: A Shiny applet assisted approach to teaching statistical power*. Poster presentation at the Electronic Conference on Teaching Statistics, May, 2018.
[Online: <https://www.causeweb.org/cause/ecots/ecots18/posters/2-08>]
18. ++*Meyer, E. S., *Arnold, E. G., & ***Green, J. L.** *Graduate teaching assistants' evolving conceptualizations of active learning*. Poster presentation at the Conference on Research in Undergraduate Mathematics Education, San Diego, CA, February, 2018.
17. *Hildreth, L. A., & ***Green, J. L.** *Using pig dice to explore probability, simulation, distributions, and informal inference*. Poster presentation at the United States Conference on Teaching Statistics, State College, PA, May, 2017.
16. ***Green, J. L.**, & *Blankenship, E. E. *Introductory statistics: Preparing in-service middle-level mathematics teachers for classroom teaching and research*. Individual session at Annual Association of Mathematics Teacher Educators Conference, Orlando, FL, February, 2017.
15. ***Green, J. L.**, & *Broatch, J. *Making changes with technology in mathematical statistics*. Poster presentation at the Electronic Conference on Teaching Statistics, May, 2016.
[Online: <https://www.causeweb.org/cause/ecots/ecots16/posters/c/5>]
14. *Broatch, J., **Green, J. L.**, & Karl, A. *Real/VAMS: An R package for fitting a multivariate value-added model (VAM)*. Conference on Statistical Practice, San Diego, CA, February, 2016.
13. ***Green, J. L.**, Stroup, W. W., ++Fellers, P.S., & Broatch, J. *Using value-added models to assess teacher professional development programs*. Annual meeting of the National Council on Measurement in Education, Chicago, IL, April, 2015.
12. *Broatch, J., **Green, J. L.**, Karl, A., & Stroup, W. W. *Incorporating "real-world outcomes" in value-added models (VAMs)*. Annual meeting of the National Council on Measurement in Education, Chicago, IL, April, 2015.

11. *Versland, T., Kelting-Gibson, L., *Wilson, S., & **Green, J. L.** *Creating a culture of data informed decisions: Training educators in data analysis to improve instruction and academic achievement.* Rural Education Association Annual Convention and Research Symposium, San Antonio, TX, October, 2014.
10. ***Green, J. L.**, & Blankenship, E. E. *Embracing reform in mathematical statistics.* Roundtable presentation at the Joint Statistical Meetings, Boston, MA, August, 2014.
9. **Green, J. L.** *Using value-added models to assess teacher professional development programs.* Topic-contributed presentation at the Joint Statistical Meetings, Boston, MA, August, 2014.
8. ***Green, J. L.**, & Blankenship, E. E. *Beyond calculations: Fostering conceptual understanding in statistics graduate teaching assistants.* International Conference on Teaching Statistics, Flagstaff, AZ, July, 2014.
7. ++*Ren, L., +Kutaka, T. S., Fleharty, H. L., Smith, W. M., Edwards, C. P., & **Green, J. L.** *Longitudinal changes in K-3 teachers' knowledge for teaching, beliefs about teaching, and attitudes towards mathematics.* Annual meeting of the American Educational Research Association, Philadelphia, PA, April, 2014.
6. +*Kutaka, T. S., Fleharty, H. L., ++Ren, L., Smith, W. M., Edwards, C. P., **Green, J. L.**, & Albano, A. *Longitudinal changes in students' math achievement scores for an elementary mathematics specialist program.* Annual meeting of the American Educational Research Association, Philadelphia, PA, April, 2014.
5. **Green, J. L.** *Statistics education research: Future directions and perspectives.* Topic-contributed presentation at the Joint Statistical Meetings, Montreal, Quebec, Canada, August, 2013.
4. ***Green, J. L.**, & *Blankenship, E. E. *Making change happen in mathematical statistics.* Poster presentation at the United States Conference on Teaching Statistics, Raleigh, NC, May, 2013.
3. ++*Kutaka, T. S., ++Fleharty, H. L., Smith, W. M., & **Green, J. L.** *Connections between teachers' mathematical knowledge for teaching and school-level poverty.* Annual meeting of the American Educational Research Association, San Francisco, CA, April, 2013.
2. ***Green, J. L.**, & *Blankenship, E. E. *Developing teachers of statistics: Redefining the introductory statistics classroom.* Topic-contributed presentation at the Joint Statistical Meetings, San Diego, CA, August, 2012.
1. ***Green, J. L.**, Smith, W. M., Stroup, W. W., Jiao, S., & Heaton, R. M. *Estimating the impact of a professional development program on student learning using a value-added model.* Annual meeting of the American Educational Research Association, Denver, CO, May, 2010.

Contributed Conference Presentations

28. ++*Cruciani, M., Byun, S., **Green, J. L.**, & Post, J. *Graduate teaching assistants' conceptions of equity.* Poster presentation at the ASA Woman in Statistics and Data Science Conference, Reston, VA, October, 2024.
27. ++*Cruciani, M., Post, J., **Green, J. L.**, & Byun, S. *Authentic data explorations: Investigating the Normal distribution through comparative rent data.* Speed session presentation at the Joint Statistical Meetings, Portland, OR, August, 2024.

26. *Post, J., ***Green, J. L.**, ++Cruciani, M., & *Byun, S. *Modules for statistic graduate teaching assistants learning to teach equitably with authentic data*. Poster presentation at the AAAS-IUSE National Summit, Washington, DC, June, 2024.
25. *Willoughby, S., LaMeres, B., Hughes, B., Organ, C., **Green, J. L.**, & Sterman, L. *Quantifying jargon*. Poster presentation at the American Association of Physics Teachers Summer Meeting, Provo, UT, July, 2019.
24. *LaMeres, B., Willoughby, S., Hughes, B., Organ, C., **Green, J. L.**, & Sterman, L. *Using improvisational acting techniques to improve the oral communication skills of STEM graduate students*. Poster presentation at the American Society of Engineering Education Annual Conference, Tampa, FL, June, 2019.
23. ++*Stratton, C., Hoegh, A., & **Green, J. L.** *Unraveling Kershaw's dominance: A case study in dynamic hierarchical multinomial regression*. Poster presentation at the Cascadia Symposium on Statistics in Sports, Vancouver, BC, August, 2018.
22. *Willoughby, S., Hughes, B., Sterman, L., Organ, C., LaMeres, B., & **Green, J. L.** *STEM storytellers: Improving graduate students' oral communication skills*. Poster presentation at the American Association of Physics Teachers, Washington, DC, August, 2018.
21. ***Green, J. L.**, Willoughby, S., LaMeres, B., Hughes, B., Sterman, L., Organ, C., & Davis, K. *STEM storytellers: Improving graduate students' oral communication skills*. Joint Statistical Meetings, Vancouver, BC, July, 2018.
20. ++*Meyer, E. S., & **Green, J. L.** *Statistics behind the skill: Cluster analysis and data visualization on disc golf data*. Poster presentation at the Joint Statistical Meetings, Vancouver, BC, July, 2018.
19. ++*Stratton, C., Hoegh, A., & **Green, J. L.** *Predicting the PITCHf/X pitch classifier*. Joint Statistical Meetings, Vancouver, BC, July, 2018.
18. *LaMeres, B., Willoughby, S., Hughes, B., Sterman, L., Organ, C., & **Green, J. L.** *STEM storytellers: Improving the oral communication skills of STEM graduate students*. Poster presentation at the American Society of Engineering Education Annual Conference, Salt Lake City, UT, June, 2018.
17. ***Green, J. L.**, Arnold, E., & ++Meyer, E. S. *Enhancing instruction: Preparing graduate teaching assistants for active learning*. Joint Statistical Meetings, Baltimore, MD, July, 2017.
16. ***Green, J. L.**, Kerby, A. T., Blankenship, E. E., Schmid, K. K., & Smith, W. M. *Introductory statistics: Preparing in-service middle-level mathematics teachers for classroom research*. Joint Statistical Meetings, Chicago, IL, August, 2016.
15. *Broatch, J., & **Green, J. L.** *Evaluation transition: Comparing RealVAMS and current value-added models*. Joint Statistical Meetings, Chicago, IL, August, 2016.
14. *Stroup, W. W., ***Green, J. L.**, *Smith, W. M., Lukin, L., & ++*Fellers, P. S. *Data Connections: Overview and findings*. Data Connections Dissemination Conference, Lincoln, NE, April, 2014.
13. ***Green, J. L.**, & ++*Fellers, P. S. *Value-added modeling basics*. Data Connections Dissemination Conference, Lincoln, NE, April, 2014.

12. ***Green, J. L., *Lewis, W., & *Blankenship, E. E.** *Involving STEM faculty*. Data Connections Dissemination Conference, Lincoln, NE, April, 2014.
11. ***Green, J. L., *Smith, W. M., & ++*Fellers, P. S.** *Future uses of VAM*. Breakout discussion at the Data Connections Dissemination Conference, Lincoln, NE, April, 2014.
10. ++*Fellers, P. S., Stroup, W., & **Green, J. L.** *Investigation of the impact of nonrandomization and ceiling effects on estimates of classroom effects from value-added models*. Joint Statistical Meetings, Montreal, Quebec, Canada, August, 2013.
9. ++*Flehart, H. L., ++*Kutaka, T. S., Smith, W. M., **Green, J. L.**, & Edwards, C. P. *Primary teachers' mathematical knowledge and student achievement gains: A longitudinal study*. Poster presentation at the Society for Research in Child Development Biennial Meeting, Seattle, WA, April, 2013.
8. ++*Fellers, P. S., *Stroup, W. W., *Lukin, L., **Green, J. L.**, *Smith, W. M., *Sutton, J. T., & Wang, X. *An investigation of the behavior of value-added models for estimating MSP impact*. Math Science Partnerships Learning Network Conference, Washington, D.C., January, 2013.
7. *Blankenship, E. E., & **Green, J. L.** *Teaching a CATALST course for pre-service elementary teachers*. Joint Statistical Meetings, San Diego, CA, July, 2012.
6. ***Green, J. L.**, ++*Fellers, P. S., *Stroup, W. W., Lukin, L., & Smith, W. M. *Data connections: Methodology for developing student achievement trajectories to estimate teaching effectiveness*. Math Science Partnerships Learning Network Conference, Washington, D.C., January, 2012.
5. ***Green, J. L.**, & *Blankenship, E. E. *Cutting through the theory: Emphasizing statistical thinking in mathematical statistics*. Joint Mathematics Meetings, Boston, MA, January, 2012.
4. ++*Flehart, H. L., **Green, J. L.**, ++Kutaka, T. S., & Smith, W. M. *Investigating middle-level teachers' mathematical knowledge for teaching*. Poster presentation at the Psychology of Mathematics Education Conference, Reno, NV, October, 2011.
3. ***Green, J. L.**, & *Smith, W. M. *Connecting the pieces: Methodology for developing student achievement trajectories from different instruments*. Math Science Partnerships Learning Network Conference, Washington, D.C., January, 2011.
2. **Green, J. L.** *Assessing pre-service teachers' growth on the Survey of Mathematical Knowledge for Teaching and the Praxis II test*. University of Nebraska College of Education and Human Sciences Student Research Conference, Lincoln, NE, November, 2008.
1. **Green, J. L.** *Introductory statistics: Perspectives of departments, instructors and students*. Joint Statistical Meetings, Denver, CO, August, 2008.

Webinars

4. ***Arnold, E. G., & *Green, J. L.** *Exploring the use of statistics curricula with annotated lesson notes*. Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) / Journal of Statistics and Data Science Education (JSDSE) webinar presentation, February, 2023.

3. ***Green, J. L.**, Willoughby, S., Sterman, L., Hughes, B., LaMeres, B., & Davis, K. *The art of storytelling: Enhancing graduate students' oral communication skills*. Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) webinar presentation, February, 2020.
2. ***Broatch, J.**, & ***Green, J. L.** *RealVAMS: Getting real-world value from value added models*. Technical Evaluation Assistance in Mathematics and Science webinar presentation, November, 2015.
1. ***Green, J. L.**, & ***Blankenship, E. E.** *Primarily statistics: Developing an introductory statistics course for pre-service elementary teachers*. Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) webinar presentation, *Journal of Statistics Education* Series, January, 2014. [Online: <https://www.causeweb.org/webinar/jse/2014-01/>]

Seminars and Colloquia

14. **Green, J. L.** *Statistics education: A journey*. Computing Education Research Lab, Michigan State University, East Lansing, MI, December, 2024.
13. **Green, J. L.** *Applying for academic jobs: DEI and teaching statements*. Department of Mathematics Graduate Student Workshop, Michigan State University, East Lansing, MI, April, 2024.
12. ***Green, J. L.**, ***Keane, J.**, & ***Melfi, V.** *Fostering a culture of instructional development in the Department of Statistics and Probability: Our journey with first-year graduate teaching assistants*. Co-Integrate Mathematics Education Series, Michigan State University, East Lansing, MI, January, 2023.
11. **Green, J. L.** *Current statistics education projects*. Co-Integrate Mathematics Education Series, Michigan State University, East Lansing, MI, December, 2020.
10. ***Eitle, T.**, ***Green, J. L.**, ***Regan, M.**, & ***Adams, D.** *CORE re-invigoration*. Faculty Symposium: Inspiring Excellence in Teaching and Learning, Montana State University, Bozeman, MT, September, 2019.
9. **Green, J. L.** *Improving statistics education: Teacher development, curricular design, and program assessment*. Program in Mathematics Education, Michigan State University, Lansing, MI, December, 2018.
8. **Green, J. L.** *Enhancing STEM education: An overview of my research program*. Department of Mathematical Sciences Statistics Seminar, Montana State University, November, 2017.
7. **Green, J. L.** *Developing teachers of statistics: Graduate teaching assistant preparation*. Department of Mathematical Sciences, Montana State University, April, 2013.
6. **Green, J. L.** *Primarily statistics: An introductory course for pre-service elementary teachers*. Department of Mathematical Sciences, SUNY Fredonia, Fredonia, NY, December, 2012.
5. **Green, J. L.** *Estimating teaching effectiveness using value-added models*. Department of Mathematics & Statistics, Villanova University, Villanova, PA, December, 2012.
4. ***Green, J. L.**, & **Blankenship, E. E.** *Primarily statistics: Developing an introductory statistics course for pre-service elementary teachers*. Discipline-Based Education Research Seminar Series, University of Nebraska-Lincoln, October, 2012.

3. *Green, J. L., & *Blankenship, E. E. *Change agents for teaching and learning statistics (CATALST): Radically redefining the introductory statistics classroom*. Department of Statistics, University of Nebraska-Lincoln, November, 2011.
2. Green, J. L. *Estimating the impact of a professional development program on student learning*. Department of Statistics, North Carolina State University, Raleigh, NC, March, 2010.
1. *Green, J. L., & *Jiao, S. *Estimating teacher effects with student achievement data*. National Science Foundation NebraskaMath National Advisory Board Meeting, University of Nebraska-Lincoln, October, 2009.

EDITORIAL ACTIVITIES

Co-Editor

2023 - present *Statistics Teacher* (co-editor with Dr. Trena L. Wilkerson)

Section Editor

2019 - present *Journal of Statistics and Data Science Education* (formerly *Journal of Statistics Education*), *Research in K-12 Education*

Associate Editor

2012 – 2019 *Journal of Statistics Education*

Ad Hoc Reviewer

2022 *Teaching Statistics*
 2021 *International Association for Statistical Education Satellite*
 2019, 21, 23 *Mathematical Thinking and Learning*
 2019 *Studies in Educational Evaluation*
 2019 *Exploring the Nature of Mathematical Modeling in the Early Grades*
 2018, 19 *Educational Researcher*
 2017, 18 *Technology Innovations in Statistics Education*
 2016, 17 *The American Statistician*
 2016 *Journal of Educational and Behavioral Statistics*
 2015, 20 *Education Policy Analysis Archives*
 2011, 19, 20, 21, 23 *Statistics Education Research Journal*
 2010, 11, 12 *Journal of Statistics Education*

PROFESSIONAL ACTIVITIES

International Association of Statistics Education (IASE)

2019 - 2022 Member/Poster Session Organizer, International Program Committee for the Eleventh International Conference On Teaching Statistics (ICOTS11)

American Statistical Association (ASA)

2021 Member, *Journal of Statistics and Data Science Education* Editor Search Committee
 2019 - 2020 Chair, Section on Statistics and Data Science Education Mentoring Committee
 2019 Lead Developer, *Training Graduate Students in Statistics How to Teach Statistics* Handout
 2018 - 2020 Member, Section on Statistics and Data Science Education Mentoring Committee
 2017 - 2021, 24-25 Mentor, Section on Statistics and Data Science Education

2016 - 2018 Member, Council of Chapters Nomination Committee

American Statistical Association (ASA) – Montana Chapter

2016 President
 2015 Vice President
 2015 Organizer, Montana Chapter of the ASA Annual Meeting
 2013 Council of Chapters Representative

Consortium for the Advancement of Undergraduate Statistics Education (CAUSE)

2024 - present Associate Co-Director for Research
 2023, 25 Mentor, United States Conference on Teaching Statistics (USCOTS) Speed Mentoring Session
 2022, 24 Mentor, Electronic Conference on Teaching Statistics (eCOTS) Speed Mentoring Session

Mathematical Association of America (MAA)

2015 Coauthor, MAA Committee on the Undergraduate Program in Mathematics
 Mathematical Statistics Course Report

Joint Statistical Meetings (JSM)

2025 Invited session organizer, *New Possibilities in Statistics Instruction: Current Trends and Future Directions*
 2023 Program Chair, Section on Statistics and Data Science Education
 2022 Program Chair Elect, Section on Statistics and Data Science Education
 2019 Invited session organizer, *Communicating to the Masses: Sharing Statistics and Data Science in a World of Sound Bites, Social Media, and Popular Press*
 2018, 19 Judge, Section on Statistics and Data Science Education SPEED Session
 2015, 16, 17 Docent
 2015 Session Chair
 2012, 13 Topic-contributed session organizer

Other Professional Activity

2019 Invited Session Organizer, *Communicating Statistics and Data Science to the Masses*, International Conference of the ERCIM Working Group on Computational and Methodological Statistics, London, UK
 2019 Enhancing Statistics Teacher Education with E-Modules (ESTEEM) Implementer, Friday Institute HI-RiSE
 2014 Smarter Balanced Assessment System Online Panel for Achievement Level Setting
 2012 Member, Statistics Education Common Core Curriculum Committee
 2010 - 2012 Change Agents for Teaching and Learning Statistics (CATALST) Implementer, University of Minnesota

COURSES TAUGHT

Michigan State University

Department of Statistics and Probability

2023 STT 990: *Topics on Universal Design and Introducing Undergraduate Students to Statistical Software (Independent Study)*

2023, 25	STT 442: Probability and Statistics II (In-person)
2022	STT 442: Probability and Statistics II (Online/In-person)
2020	STT 442: Probability and Statistics II (Online)

Program in Mathematics Education

2025	MTHE 926: Proseminar in Mathematics Education I
2024	MTHE 997: Critical Content of School Mathematics: Data Science and Statistics Education (Special Topics)
2023	MTHE 954: Design and Methods in Mathematics Education Research (In-person)
2022	MTHE 990: Equity-Oriented and Disability-Informed Mathematical Knowledge for Teaching in Secondary and Post-Secondary Mathematical Sciences Teaching Professional Development (Independent Study)
2022, 24	MTHE 879: Teaching College Mathematics (In-person)
2020	MTHE 879: Teaching College Mathematics (Online)

Montana State University

2020	STAT 591: Becoming a Teacher of Statistics
2019, 20	M 518: Statistics for Teachers (Online Course)
2019	STAT 411/511: Methods for Data Analysis I
2019	STAT 689: Doctoral Reading and Research
2019	STAT 437: Introduction to Applied Multivariate Analysis
2017, 18, 19, 20	STAT 502: Intermediate Mathematical Statistics
2016, 17, 18, 19	STAT 501: Intermediate Probability and Statistics
2014, 15, 16, 18	STAT 422: Mathematical Statistics
2014, 15	STAT 401: Applied Methods in Statistics
2013, 14, 15, 17	STAT 421: Probability Theory

University of Nebraska-Lincoln

2011, 12, 13	STAT 463: Introduction to Mathematical Statistics II: Statistical Inference
2010, 11, 12	STAT 462: Introduction to Mathematical Statistics I: Distribution Theory
2004 - 2009	STAT 218: Introduction to Statistics

COURSES AND PROFESSIONAL DEVELOPMENT TEAM-TAUGHT AND DEVELOPED**Michigan State University**

2022 - 2025	Instructional Mentoring Program , Department of Statistics and Probability Co-designed and co-coordinated this graduate student mentoring program, week-long orientation, and weekly 90-minute instructional development workshops for new graduate teaching assistants during the 2022-23 academic year. Also co-designed and co-coordinated graduate student mentor development workshops twice each month during the 2022-23 academic year. Continuing these efforts in 2023-24 and 2024-25 academic years and Fall 2025 with a new cohort of graduate teaching assistants.
2022	Facilitating Accessible & Inclusive Mathematics Learning Environments , Center for Instructional Mentoring, Department of Mathematics, Program in Mathematics Education Collaboratively designed and helped facilitate this 10-week workshop for mathematics graduate students in Spring 2022. Extended and offered the workshop to graduate students in mathematics, statistics, and mathematics education in Fall 2022.

Montana State University

- 2014 - 2019 **Excellence in Teaching Symposium**, Department of Mathematical Sciences
Co-designed and co-led this graduate student mentoring program and weekly one-hour long training seminar for new graduate teaching assistants each fall. In Spring 2017, extended training seminar to be year-long.
- 2014 - 2018 **Graduate Teaching Assistant Training Workshop**, Department of Mathematical Sciences
Co-developed and co-led this five-day orientation and teaching workshop for incoming graduate students and teaching assistants each August.
- 2015 **Mathematics Modeling Workshop**, NSF *IMMERSION* Project
Co-developed and team-taught a five-day mathematics modeling workshop for grades K-5 in-service teachers. Focused on developing an understanding of mathematics modeling and how it can be used in an elementary classroom.
- 2014 **EDU 588: Data Literacy for Teachers**
Co-developed and team-taught this week-long summer course about how to use student data to inform instruction for grades K-12 in-service teachers.

University of Nebraska-Lincoln

- 2009, 2012 **STAT 892: Statistics for High School Teachers**
Co-developed and team-taught this graduate-level statistics course for high school teachers. Focused on developing teachers' statistical knowledge for teaching AP Statistics courses.
- 2008 - 2012 **STAT 892: Graduate Teaching Assistant Seminar**
Co-developed and team-taught a 1-credit hour fall seminar to help prepare graduate teaching assistants to teach statistics courses.
- 2007 - 2012 **Graduate Teaching Assistant Training Workshop**, Department of Statistics
Co-developed and co-led a five-day teaching workshop for incoming graduate teaching assistants.
- 2011 **STAT 218: Introductory Statistics for Pre-Service Elementary Educators**
Co-developed and team-taught a 3-credit hour statistics course for pre-service elementary teachers. Focused on how to help students develop statistical reasoning, thinking and literacy skills in an elementary classroom.
- 2005 - 2011 **STAT 892: Statistics for Middle-Level Teachers**, NSF *Math in the Middle Institute*
Co-developed and team-taught this graduate-level statistics course for several cohorts of middle-level teachers from Summer 2005-2011. Focused on developing teachers' statistical knowledge for teaching.

LOCAL SCHOOL PARTNERSHIPS & COLLABORATIONS

From Fall 2020 to Spring 2022, I partnered with Oakland Schools, a regional resource center supporting math programs in 28 diverse K-12 school districts in Michigan. I participated in their monthly Math Equity Learning Network workshops aimed at supporting K-12 mathematics in identifying inequities and developing change actions in instructional practice.

ADVISING AND MENTORING

ASA Section on Statistics and Data Science Education

Statistics Education Career Mentor

2024 - 2025	Jennifer A. Emond, Ph.D. (Associate Professor, Dartmouth)
2020 - 2022	Julie Deeke, Ph.D. (Lecturer, University of Michigan)
2017 - 2019	Julie Garai, Ph.D. (Assistant Professor, The University of the South)

Michigan State University

Early Career Mentor

2022 - 2023	Banan Al-Tayeb, Graduate Student, Statistics and Probability
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Chair

Current	Miguel Rodriguez, Ph.D. PriME
	– <u>Awards</u> : Future Academic Scholars in Teaching (FAST) Fellowship, 2024-25
Current	Maria Cruciani, Ph.D. PriME & Statistics and Probability
	– <u>Awards</u> : National Science Foundation (NSF) Graduate Research Fellowship, 2024
	Future Academic Scholars in Teaching (FAST) Fellowship, 2024-25
	First Place Oral Presentation, MSU's Council of Graduate Students' 16 th Annual Graduate Academic Conference, March 2024
	Section on Statistics and Data Science Education Speed Session Award, 2024 Joint Statistical Meetings
Current	Anthony Dickson, Ph.D. PriME
Current	Michael Quail, Ph.D. PriME & CMSE (<i>co-chair with Dr. Danny Caballero</i>)
Current	Tim Hansen, Ph.D. PriME (<i>co-chair with Dr. Vincent Melfi</i>)
2025	Katie Westby, Ph.D. PriME (<i>co-chair with Dr. Tonya Bartell</i>)
	– <u>Dissertation</u> : <i>We exist proudly: Disabled and neurodivergent teacher</i>
	– <u>Awards</u> : King-Chavez-Parks Future Faculty Fellowship, 2023-24
	MSU Excellence in Diversity, Equity and Inclusion Award, 2024
	Karen King Future Leader Award of the Special Interest Group for Research in Mathematics Education, 2024
2023	Sam (Sarah) Manski, Ph.D. Statistics and Probability (<i>co-chair with Dr. Frederi Viens</i>)
	– <u>Dissertation</u> : <i>Bayesian statistical methods: Advancing field-level risk assessment, accessible statistical training, and inclusive global education</i>
	– <u>Awards</u> : Future Academic Scholars in Teaching (FAST) Fellowship, 2022-23
	NatSci Great IDEA (Inclusion, Diversity, Equity, & Accessibility) Fellowship, 2022-23
	NatSci Excellence in Teaching Citation, 2023

First-Year Advisor

2025	Eunice Linah Tachie-Menson, PriME
2023	Maria Cruciani, Ph.D. PriME

Committee Member

Current	Seth Ricarte, Ph.D. PriME
Current	Sadrack Pagiling, Ph.D. PriME
Current	Jose Contreras, Ph.D. PriME
Current	Grayson White, Ph.D. Ag & Natural Resources
Current	Rachel Roca, Ph.D. Computational Mathematics, Science and Engineering (CMSE)

Current	Emily Bolger, Ph.D. CMSE
Current	Claire Lambert, Ph.D. PriME
Current	John Keane, Ph.D. Educational Psychology and Educational Technology
Current	Alicia Matthews-Johnson, Ph.D. PriME
Current	Rileigh Luczak, Ph.D. PriME
2024	Brady Tyburski, Ph.D. PriME
	– <i><u>Dissertation</u>: Change the story, change the curriculum: The curriculum-as-story metaphor as a flexible lens for interpreting curricular (in)coherence from students' perspectives and beyond.</i>
2023	Sarah Castle, Ph.D. PriME
	– <i><u>Dissertation</u>: Coding for creativity: Exploring the effects of computing enacted through coding on students' mathematical creativity in linear algebra</i>
2025	Grayson White, M.S. Statistics and Probability
	– <i><u>Thesis</u>: Hierarchical models for small area estimation using zero-inflated forest inventory variables: Comparison and implementation</i>

Research Project Mentor, Graduate Students

2023 - current	<p>Maria Cruciani (Ph.D. PriME)</p> <p>National Science Foundation Graduate Research Fellowship (Submitted Oct 2023; Awarded April 2024)</p> <p>Title: <i>Exploring changes in introductory statistics students' motivational attitudes when using social justice-based lessons</i></p> <p>Description: In this research project, Maria plans to explore the impacts of a social justice-based unit in introductory statistics on students' attitudes and motivation towards learning statistics.</p>
2025	<p>Miguel Rodriguez (Ph.D. PriME)</p> <p>PriME Research Assistantship: Developing and researching the use of generative AI to support learning in undergraduate mathematical statistics courses.</p>
2023 - 2025	<p>Maria Cruciani (Ph.D. PriME)</p> <p>PriME Research Assistantship: Developed, wrote, and submitted NSF GRF proposal; developed and gave conference presentations; designed, piloted, and administered a survey, collected interview data, and analyzing survey and interview data to explore the teaching and learning of statistics in secondary intermediate algebra courses; collecting and analyzing interview and video data to explore GTAs' problems of practice and conceptions of equity for teaching statistics; collaboratively designing introductory statistics lessons for students to explore authentic data; developing and researching the use of generative AI to support learning in undergraduate mathematical statistics courses.</p>
2023	<p>Anthony Dickson (Ph.D. PriME; co-mentor with Dr. Vince Melfi)</p> <p>PriME Research Assistantship: Developing and researching an arts-based statistics project to engage undergraduate statistics students with data storytelling and ethics.</p>
2022 - 2023	<p>Sam (Sarah) Manski (Ph.D. Statistics and Probability; co-mentor with Dr. Frederi Viens)</p> <p>Future Academic Scholars in Teaching (FAST) Fellowship, MSU</p> <p>NatSci Great IDEA (Inclusion, Diversity, Equity, and Accessibility) Fellowship, MSU</p>

Title: *An accessible and inclusive intervention: A seminar, e-portfolio, and global learning network to teach research professionals how to learn R*

Description: Using Universal Design for Learning principles, developed, implemented, and researched a workshop and electronic resources to teach graduate students at Michigan State University and early-career researchers in Africa how to learn R.

2022 - 2023

Katie Westby (Ph.D. PriME; co-mentor with Rachel Lund)

Marianne Amarel Fellowship, College of Education, MSU

Title: *Studying Teacher Learning about Disabled Students in Mathematics, Statistics, and Mathematics Education Classrooms: A Professional Development for Math, Stats, and Math Education Graduate Teaching Assistants*

Description: Revised, implemented, and researched outcomes of a multi-week professional development workshop for graduate students in mathematics, statistics, and mathematics education about models of disability, building communities in learning across disciplinary boundaries, antideficit teaching, and Universal Design for Learning-Math.

2021 - 2022

Katie Westby (Ph.D. PriME; co-mentor with Dr. Andrew Krause)

Leadership Development Fellowship, Graduate School, MSU

Title: *Facilitating Accessible & Inclusive Mathematics Learning Environments: A Professional Development for Mathematics Graduate Teaching Assistants*

Description: Developed, implemented, and researched outcomes of a 10-week professional development workshop for graduate students in mathematics on how to facilitate accessible and inclusive mathematics learning environments.

2020 - 2022

Tim Hansen (Ph.D. PriME)

PriME Research Assistantship: Wrote and edited manuscripts, wrote and submitted grant proposals, prepared conference presentations

Montana State University

Early Career Faculty Mentor

2018 - 2020

Katharine Banner, Ph.D. (Assistant Professor, Statistics)

2018

Loribeth Evertz, Ph.D. (Assistant Prof. of Teaching, Mechanical & Industrial Engineering)

Chair

2022

Elijah Meyer, Ph.D. Statistics, Statistics Education specialization
(co-chair with Dr. Stacey Hancock)

- Dissertation: *Investigating newer statistics instructors' breakthroughs with and motivations for using active learning: A longitudinal case-study and a multiple-phase approach towards instrument development*
- Awards: College of Letters and Science's Outstanding Graduate Teaching Assistant Award, 2021

2022

Christian Stratton, Ph.D. Statistics (co-chair with Dr. Andrew Hoegh)

- Dissertation: *Bayesian hierarchical latent variable models for ecological data types*

2020

Kehinde Ajayi, M.S. Statistics (co-chair with Dr. Stacey Hancock)

- Writing Project: *Dimensionality reduction and clustering techniques for text mining*

2019

Caitlin Rowan, M.S. Statistics (co-chair with Dr. Megan Wickstrom)

- Writing Project: *Understanding college students' intuition of compound events*

2019

Noah Benedict, M.S. Statistics

- Writing Project: *Text mining*

- 2018 Elijah Meyer, M.S. Statistics
– Writing Project: *Statistics behind the skill: Cluster analysis and data visualization on disc golf data*
- 2018 Julia Platt, M.S. Statistics (co-chair with Dr. Andrew Hoegh)
– Writing Project: *A Bayesian mixture distribution model for Olympic weightlifting scores*
- 2018 Christian Stratton, M.S. Statistics (co-chair with Dr. Andrew Hoegh)
– Writing Project: *Predicting the PITCHf/x pitch classifier*
- 2018 David Lartey, M.S. Statistics
- 2018 Priscilla Omari-Baah, M.S. Statistics
- 2017 Kara Johnson, M.S. Statistics
– Writing Project: *(Why) were the polls wrong?*
- 2016 KelsiAnne Espinoza, M.S. Statistics
– Writing Project: *Exploring qualitative research*
- 2016 Elizabeth Arnold, M.S. Statistics
– Writing Project: *Graduate teaching assistant development: Fostering an intellectual teaching community in the Department of Mathematical Sciences*
- 2016 Claire Rasmussen, M.S. Statistics
- 2016 Wilson Wright, M.S. Statistics

Committee Member

- 2020 Allison Theobald, Ph.D. Statistics Education
– Dissertation: *Supporting data-intensive research in the environmental sciences: Data science skills for scientific practitioners of statistics*
- 2016 Katharine Banner, Ph.D. Statistics
– Dissertation: *Is model averaging the solution for addressing model uncertainty?: Methodological insights, tools for assessment, and considerations for practical use*
- 2016 Danielle Pettry, Ph.D. Mathematics Education
– Dissertation: *The development of specialized content knowledge in beginning algebra among secondary mathematics pre-service teachers*
- 2016 Elizabeth Arnold, Ph.D. Mathematics Education
– Dissertation: *Investigating the teaching of statistics with technology at the high school level through the use of annotated lesson plans*
- 2015 Shari Samuels, Ph.D. Mathematics Education
– Dissertation: *The evolution of prospective elementary teachers' competencies: Procedural knowledge, mathematical knowledge for teaching, attitudes, and enactment of mathematical practices*

M.S. Statistics Committees (2016-2021): 19

M.S. Mathematics Committees (2016): 1

M.S. Mathematics Education Committees (2014): 1

Research Project Mentor, Undergraduate Students

- 2016 Charlie Carpenter (B.S. Mathematics-Statistics option; co-mentor with Dr. Mark Greenwood)
Title: *Modeling Techniques for Assessing Outcomes from Various Introductory Statistics Curricula in a Second Statistics Course*
Honorable Mention in Applied Research, 2016 Undergraduate Statistics Research Project Competition from the Consortium for the Advancement of Undergraduate Statistics Education and the American Statistical Association

Research Project Mentor, Graduate Students

- 2017 - 2019 Elijah Meyer (M.S. Statistics / Ph.D. Statistics Education)
Revised and implemented a training program for GTAs in the Department of Mathematical Sciences. Researched GTAs' evolving conceptualizations and uses of active learning.
- 2017 Christian Stratton (M.S. Statistics)
Developed an R Shiny App for mathematical statistics students to visualize power curves.
- 2014 - 2015 Elizabeth Arnold (M.S. Statistics / Ph.D. Mathematics Education)
Developed, implemented and researched the impact of a training and mentoring program for GTAs in the Department of Mathematical Sciences.

University of Nebraska-Lincoln

Committee Member

- 2014 Pamela Fellers, Ph.D. Statistics
– *Dissertation: Value-added methodology for estimating professional development program effects*
- 2013 Julie Couton, M.S. Statistics
- 2012 Aimee Schwab, M.S. Statistics

SERVICE

Community

- 2014 - 2019 Presenter, Expanding Your Horizons Conference
- 2017 Panelist, Conference on Undergraduate Women in Physics (CUWIP)
- 2013 Panelist, Women in Science and Engineering (WISE) Fall Retreat

Michigan State University – Service to the University

- 2021, 22, 23 College of Natural Science Awards Committee
- 2021 - 2022 College of Natural Science Faculty Annual Evaluation Committee

Michigan State University – Service to the Department of Statistics and Probability

- 2022, 23, 24, 25 Reappointment and Promotion Committee for Academic Specialists and Fixed Term Faculty
- 2022, 25 1855 Professor Search Committee
- 2021 - 2023 Advisory Committee
- 2021, 22 Reappointment, Promotion and Tenure Committee
- 2021-22, 2023-25 DEI Committee (Chair, 2021)

Michigan State University – Service to Program in Mathematics Education (PriME)

- 2023 - 2024 Chair, PriME Open Rank Professor Search Committee
- 2022 Comprehensive Exam Committee
- 2022 - 2024 Executive Committee

Montana State University – Service to the University

- 2018 - 2020 University Core Curriculum Committee
- 2018 Mentor, Center for Faculty Excellence Faculty Mentoring Program
- 2015 Speaker, Center for Faculty Excellence Celebration
- 2015 Panelist, Faculty Excellence Grants Program Information Session

- 2014, 15 Presenter, New Faculty Orientation
 2014 Panelist, ADVANCE Project TRACS National Science Foundation Site Visit

Montana State University – Service to the Department of Mathematical Sciences

- 2018 - 2020 New Faculty Mentor
 2019 Executive Committee
 2019 Course Supervisor, STAT 332
 2018 Promotion and Tenure Committee
 2017 - 2019 Statistics Group Leader
 2017, 18, 19 MS Statistics Comprehensive Exams Writing Team
 2015, 16, 19 Statistics Search Committee
 2015 - 2016 Undergraduate Advisory Council
 2015 M121 Student Success Coordinator Search Committee
 2014, 15, 16 Organizer, Department of Mathematical Sciences Fall Orientation
 2014, 15 Advisor, GTA Mentoring Program
 2013 Mathematics Education Search Committee

University of Nebraska-Lincoln

- 2011 - 2013 Chair, Department of Statistics Statistical Culture Faculty Committee
 2010 - 2013 Department of Statistics Curriculum Committee
 2010 - 2013 Department of Statistics Instructional Improvement Committee
 2006 - 2013 Teaching Assistant Resource Administrator, Department of Statistics
 2011, 12 Co-Coordinator, Department of Statistics New Student Orientation
 2011, 12 Session Leader, Annual Campus-wide Workshop for Graduate Teaching Assistants
 2010 Discussant, *NebraskaMATH* Graduate Student Seminar
 2009, 10 Session Leader, National Conference for Undergraduate Women in Mathematics
 2009 Invited Panelist, How to Survive Graduate School: Graduate Students' Perspectives

PROFESSIONAL DEVELOPMENT & WORKSHOPS

Promoting inclusion, diversity, equity, and accessibility (IDEA) in STEM at MSU and within the broader statistics and statistics education community is an integral aspect of my research, teaching, and service. Throughout all my work, I am committed to centering equity in STEM teaching and learning, and to creating inclusive and accessible learning opportunities and environments for supporting diverse audiences. As part of this commitment, I invest in my continual learning and development by participating in several professional development opportunities each year and then integrating what I have learned in my research, teaching, and service activities. Learning is a lifelong journey, and workshops such as the following have helped me grow both professionally and personally, especially as I seek to continue promoting inclusion, diversity, equity, and accessibility throughout all areas of my work and practice.

- 2025 Spartan Resilience Training Program, Facilitator: Lisa Laughman
 * Setting Healthy Boundaries Course
 * Increasing Your Psychological Flexibility Course
 2024 Microaggressions/Bystander Intervention Workshop, Institutional Diversity and
 Inclusion (IDI) Office, Michigan State University
 2023 Bystander Intervention Workshop, Prevention, Outreach, and Education Department,
 Michigan State University
 2023 Challenging Classroom Conversations: Navigating Potentially Polarizing Discussions
 with Skill and Sensitivity, Center for Teaching and Learning Innovation (CTLI) and
 Office for Institutional Diversity and Inclusion (IDI), Michigan State University

- 2023 The Risk and the Resistance: Dismantling the Toxicity in the STEM Ecosystem, Speaker: Dr. Ebony O. McGee
- 2023 Accept Your Computer Overlords: Ramp Up Your Teaching Practice with Generative AI, STEM+Ed@State, Michigan State University
- 2023 Youth GO: A Participatory Qualitative Approach to Engaging Young People in Evaluation and Research, University Outreach and Engagement Speaker Series, Michigan State University
- 2023 Confident Women Series, Facilitator: Shelley Davis Boyd, MBA, CAE
* Emotional Intelligence as a Foundation to DEI Work,
* Self Awareness: Who Am I & How Do
- 2023 Telling Our Stories Through Quantitative Data: Collaborations with Community and Research Partners to Conduct Analyses of a National Secondary Data Set, University Outreach and Engagement Speaker Series, Michigan State University
- 2023 Reflect and Connect: A Framework for Processing and Self-Care, Facilitator: Lisa Laughman, Coordinator, Spartan Resilience Training Program
- 2023 Rebuilding Hope: Teaching in the Aftermath, Michigan State University
- 2022 Faculty Success Program, National Center for Faculty Development and Diversity
- 2021 College of Natural Science Cultural Competency Skills Development, Michigan State University
- 2021 INCLUDED Summer Studio, www.inclusivefaculty.com, Facilitator: Dr. Sara Schley
- 2021 Crucial Conversations, Michigan State University
- 2021 College of Natural Science Cultural Competency Workshop Series, Michigan State University
- 2021 Broader Impact of Research: Strategies, Resources, and Partners Conference, Michigan State University

PROFESSIONAL MEMBERSHIPS & LICENSES

International Association for Statistical Education (IASE)
Michigan Association of Mathematics Teacher Educators (MI-AMTE)
American Statistical Association (ASA)
Statistics and Data Science Education Section of the American Statistical Association
Mu Sigma Rho, National Statistics Honor Society
Certified, Collaborative Institutional Training Initiative (CITI) Program, Social & Behavioral Research
Nebraska Teaching Certificate, 7-12 Mathematics (2004 - 2014)