

GRADUATE EDUCATION

Ph.D. (2017), University of Minnesota - Department of Educational Psychology

COURSE CONCENTRATION: Statistical Education

ADVISORS: Joan Garfield & Andrew Zieffler

TITLE: *Assessing the Development of Students' Statistical Thinking: An Exploratory Study*

M.S. (2009), University of Minnesota – Department of Statistics

ADVISOR: Sandford Weisberg

TITLE: *Are Stream's Clarity Getting Better Over Time? A Statistical and Graphical Analysis of MN Streams and MN River Basins*

B.A. (2006), Luther College

MAJOR: Mathematics & Statistics

TEACHING EXPERIENCE

- 2013-present **Instructor/Lecturer**, School of Public Health, Division of Biostatistics, University of Minnesota, Twin Cities.
- Taught graduate level statistics courses—PubH 6414: Biostatistical Literacy (in-person and online), PubH 6450: Biostatistics I (in-person and online), & PubH 6451: Biostatistics II (online), PubH 7401: Fundamentals of Biostatistical Inference (in-person), PubH 7461: Exploring and Visualizing Data in R (remote teaching via Zoom and in-person), and PubH 8400: Teaching Statistics: From Theory to Practice (in-person).
- 2009-2013 **Graduate Teaching Assistant**, Department of Educational Psychology, Quantitative Methods in Education, University of Minnesota, Twin Cities.
- Taught undergraduate level statistics courses—EPSY 3264: Basic and Applied Statistics.
 - Taught graduate level statistics courses—EPSY 5261: Introductory Statistical Methods.
- 2008-2007 **Graduate Teaching Assistant**, Department of Statistics, University of Minnesota, Twin Cities.
- Taught undergraduate level statistics courses—STAT 3011: Introduction to Statistical Analyses.

PROFESSIONAL EXPERIENCE

2008-2009 **Data Analyst**, Target Headquarters, Twin Cities.

HONORS AND AWARDS

2017 **Charles N. Hewitt Creative Teaching Award**, School of Public Health, University of Minnesota, Twin Cities.

2012 **Graduate Student Teaching Award**, Department of Educational Psychology, University of Minnesota, Twin Cities.

CURRICULUM DEVELOPMENT

- Created *PubH 8400: Teaching Statistics: From Theory to Practice*, a course that explores research and practice related to statistics and data science education and is designed to prepare students to be knowledgeable about teaching and learning statistics. The course is based on a retired course titled *EPsy 5271: Becoming a Teacher of Statistics*. The course is a collaborative effort with the Penn State University and North Carolina State University (i.e., organization of topics, compilation of readings, and invitations to guest speakers).
- Revised the curriculum of *PubH 7461: Exploring and Visualizing Data in R* to be a flipped classroom structure (i.e., weekly structure: prep material + quiz, in-class practice/active learning environment, end-of-week assessment), have weekly learning objectives, and use weekly assessments that are more ill-structured.
- Helped revise curriculum of *PubH 6450: Biostatistics I* and *PubH 6451: Biostatistics II*, which included creating online lectures, lab documents on coding for both R and SAS, activities, and assessments. Continually evaluate and improve the course materials based on observations, TA feedback, and student feedback.
- Helped evaluate the pilot version of *PubH 6414: Biostatistical Literacy* and revise activities and project for the course. Continually evaluate and improve the course materials based on observations, TA feedback, and student feedback.
- Co-developed (with Laura Ziegler) a new version of *EPSY 5261: Introductory Statistical Methods* by creating all of the in-class activities and assessments, and using an flipped classroom environment and embedding modeling and simulation.
- Was a member of a team to develop a new course for *EPSY 3264: Basic and Applied Statistics* as part of the CATALST project, which is based on modeling and simulation.

PUBLICATIONS: REFERRED JOURNALS

- [6] Legacy, C., Zieffler, A., Fry, E., & Le, L. (2022). Computes: Development of An Instrument To Measure Introductory Statistics Instructors' Emphasis On Computational Practices. *Statistics Education Research Journal*, 21(1), Article 7. <https://doi.org/10.52041/serj.v21i1.63>.
- [5] Justice, N., Le, L., Sabbag, A., Fry, E., Ziegler, L., & Garfield, J. (2020). The CATALST curriculum: A story of change. *Journal of Statistics Education*, 28(2), 175-186, DOI: [10.1080/10691898.2020.1787115](https://doi.org/10.1080/10691898.2020.1787115)
- [4] Sadr Dadres, G., Whitaker, K.M., Haapala, J.L., Foster, L., Smith, K.D., Teague, A.M., Jacobs Jr., D.R., Kharbanda, E.O., McGovern, P.M, Schoenfuss, T.C., Le, L., Harnack, L., Fields, D.A., & Demerath, E.W. (2019). Relationship of Maternal Weight Status Before, During, and After Pregnancy with Breast Milk Hormone Concentrations. *Obesity*, 27(4), 621-628.
- [3] Stanhope, L., Ziegler, L., Haque, T., Le, L., Vincens, M., Davis, G.K., Zieffler, A., Brodfuehrer, P., Preest, M., Belitsky, J.M., Umbanhowar Jr., C., & Overvoorde, P.J. (2017). Development of a biological science quantitative reasoning exam (BioSQuaRE). *CBE Life Sciences Education*, 16(4), ar66.
- [2] Garfield, J., Le, L., Zieffler, A., & Ben-Zvi, D. (2014). Developing students' reasoning about samples and sampling variability as a path to expert statistical thinking. *Educational Studies in Mathematics*, 1-16.
- [1] Zieffler, A., Garfield, J., delMas, R., Bjornsdottir, A., Isaak, R., Le, L., & Park, J. (2011). Publishing in SERJ: An analysis of papers from 2002–2009. *Statistics Education Research Journal*, 10(2), 5-26. [http://www.stat.auckland.ac.nz/~iase/serj/SERJ10\(2\)_Zieffler.pdf](http://www.stat.auckland.ac.nz/~iase/serj/SERJ10(2)_Zieffler.pdf)

PUBLICATIONS, IN PREPARATION & IN REVIEW

- [3] Brearley, A., Le, L., & Rott, K. (Manuscript in review). A Biostatistical Literacy Course: Teaching Medical and Public Health Professionals to Understand the Statistics in the Literature. *Journal of Statistics Education*.
- [2] Fry, E., Le, L., Legacy, C., & Zieffler, A. (Manuscript in preparation). The Teaching of Introductory Statistics: Results of a National Survey.

[1] Brearley, A., & Le, L. (Manuscript in preparation). The Use of Collaborative Keys to Create a Learning Community in an Online Course.

CONFERENCE PRESENTATIONS

[33] Braun, T., Sen, A., Le, L., Tokdar, S., Van Der Laan, M., & Wang, L. (2021, August). *Assessing PhD readiness in biostatistics*. Panel at Joint Statistical Meetings (virtual).

[32] Legacy, C., Zieffler, A., Fry, E., & Le, L. (2021, June). *COMPUTES: Development of an instrument to measure introductory statistics instructors' emphasis on computational practices*. Poster presented at United States Conference on Teaching Statistics (virtual).

[31] Fry, E., & Le, L. (2021, June). *Intentional community-building throughout the entire course*. Breakout session at United States Conference on Teaching Statistics (virtual).

[30] Foti, S., Le, L., Loy, A., Whitaker, D., & Ziegler, L. (2021, June). *Lessons for the future from a year of COVID teaching*. Special education session at Symposium on Data Science & Statistics (virtual).

[29] Fry, E., Legacy, C., Zieffler, A., & Le, L. (2020, October). *The state of computing in introductory statistics*. Poster presented at Women in Statistics & Data Science Conference, Pittsburgh, PA, by E. Fry. <https://ww2.amstat.org/meetings/wsds/2020/onlineprogram/ViewPresentation.cfm?file=308508.pdf>

[28] George, B., Brearley, A., Jiroutek, M., Le, L., & Lee, S., & Brems, M. (2020, August). *Methods for fostering student engagement in online statistics courses*. Topic contributed panel at Joint Statistical Meetings (virtual).

[27] Le, L., Lock Morgan, K., & McGowan, L. (2020, May). *Panel: Engaging students during the COVID-19 health crisis*. Invited panelist at Electronic Conference on Teaching Statistics.

[26] Le, L., & Brearley, A. (2019, May). *A course in biostatistical literacy: Learning to evaluate evidence*. Poster presented at United States Conference on Teaching Statistics, State College, PA.

- [25] Brearley, A., & Le, L. (2019, March). *Life on an island: Using a virtual world to make statistics real*. Invited presentation at Stat Chat, Macalester College, St. Paul, MN.
- [24] Brearley, A., & Le, L. (2018, August). *Using an apprenticeship model to train future teachers of statistics*. Poster presented at Joint Statistical Meetings, Vancouver, BC, Canada.
- [23] Brearley, A., & Le, L. (2018, August). *Flipping online: Creating an active learning classroom in an online biostatistics course*. Topic Contributed Paper presented at Joint Statistical Meetings, Vancouver, BC, Canada.
- [22] Overvoorde, P., Stanhope, L., Ziegler, L., Haque, T., Le, L., Vinces, M., Davis, G. K., Zieffler, A., Brodfuehrer, P., Preest, M., Belisky, J., & Umbanhowe, C., Jr. (2017, May). *Development of a biological science quantitative reasoning exam (BiSQuaRE)*. Poster presented at the Making Meaning Through Modeling: Problem Solving in Biology Workshop, East Lansing, MI by P. Overvoorde, L. Stanhope, & L. Ziegler.
- [21] Brearley, A., & Le, L. (2017, May). *Life on an island: Using a virtual world to make statistics real*. Breakout session at United States Conference on Teaching Statistics, State College, PA.
- [20] Le, L., & Brearley, A. (2017, May). *Flipping online: Creating an active learning classroom in an online course*. Poster presented at United States Conference on Teaching Statistics, State College, PA.
- [19] Overvoorde, P., Belitsky, J., Brodfuehrer, P., Davis, G., Haque, T., Le, L., Preest, M., Stanhope, L., Umbanhowe, C., Jr., Vinces, M., Zieffler, A., & Ziegler, L. (2016, April). *Lessons learned during the development of BioSQuaRE, an instrument to assess undergraduate biological quantitative skills*. Presentation at the Howard Hughes Medical Institute Constellation Studios for Science Education, Chevy Chase, MD by P. Overvoorde.
- [18] Vinces, M., Stanhope, L., Belitsky, J., Brodfuehrer, P., Davis, G., Haque, T., Le, L., Overvoorde, P., Preest, M., Umbanhowe, C., Jr., Zieffler, A., & Ziegler, L. (2015, November). *Development of BioSQuaRE, an instrument, an instrument to assess undergraduate biological quantitative skills*. Poster presented at the Crossing Boundaries: Transforming STEM Education, Network for Academic Renewal STEM Conference, Seattle, WA by M. Vinces and L. Stanhope.

- [17] Davis, G., Stanhope, L., Belitsky, J., Brodfuehrer, P., Haque, T., **Le, L.**, McFadden, C., Overvoorde, P., Preest, M., Umbanhower, C., Jr., Vinces, M., Zieffler, A., & Ziegler, L. (2015, June). *Defining the quantitative skills of incoming biology students*. Poster presented at the Howard Hughes Medical Institute Constellation Studio A meeting, Chevy Chase, MD by G. Davis and L. Stanhope.
- [16] Belitsky, J., Vinces, M., Darling, N., Brodfuehrer, P., Davis, G., Haque, T., **Le, L.**, McFadden, C., Overvoorde, P., Preest, M., Stanhope, L., Umbanhower, C., Jr., Zieffler, A., & Ziegler, L. (2015, May). *Assessing quantitative skills preparedness and learning*. Presentation at the Ohio Project Kaleidoscope Conference, Otterbein University, Westerville, OH by J. Belitsky, M. Vinces, and N. Darling.
- [15] Overvoorde, P., Belitsky, J., Brodfuehrer, P., Davis, G., Haque, T., **Le, L.**, McFadden, C., Preest, M., Stanhope, L., Umbanhower, C., Jr., Vinces, M., Zieffler, A., & Ziegler, L. (2015, May). *Defining the quantitative and computational skills of incoming biology students*. Presentation at the Understanding Interventions Conference, San Diego, CA by P. Overvoorde.
- [14] Overvoorde, P., Belitsky, J., Brodfuehrer, P., Davis, G., Haque, T., Le, L., McFadden, C. Preest, M., Stanhope, L., Umbanhower, C., Jr., Vinces, M., Zie er, A., & Ziegler, L. (2015, February). Past and future of BioSQuaRE as an instrument developed by the Q6 Consortium. Presentation at the Quantitative Undergraduate Biology Education Summit, Raleigh, NC by P. Overvoorde.
- [13] **Le, L.**, Ziegler, L., & Zieffler, A. (2014, March). *Developing a quantitative skills assessment for incoming biology students*. Poster presented at the Graduate Student Research Day, University of Minnesota, Minneapolis, MN.
- [12] delMas, R., Fry, E., **Le, L.**, & Sabbag, A. (2013, May). *Evaluating the Impact of Change in Curriculum and Teaching*. Breakout session at United States Conference on Teaching Statistics, Raleigh-Durham, NC.
- [11] Garfield, J., delMas, R., Zieffler, A., **Le, L.**, Isaak, R. & Ziegler, L. (2012, January). *Change agents for teaching and learning statistics: The catalyst cooks come to Harvard*. Invited presentation at Harvard University, Cambridge, MA by the CATALST team.
- [10] Isaak, R., Garfield, J., delMas, R., Zieffler, A., Rossman, A., Chance, B., Holcomb, J., Cobb, G., Everson, M., Ziegler, L., & **Le, L.** (2011, August). *The course as textbook*. Invited paper presented at the Joint Statistical Meetings, Miami, FL by R. Isaak.

- [9] Ziegler, L., Zieffler, A., Garfield, J., delMas, R., Rossman, A., Chance, B., Holcomb, J., Cobb, G., Isaak, R., & Le, L. (2011, August). *CART in CATALST*. Invited paper presented at the Joint Statistical Meetings, Miami, FL by L. Ziegler.
- [8] Zieffler, A., Garfield, J., delMas, R., Rossman, A., Chance, B., Holcomb, J., Cobb, G., Isaak, R., Le, L., & Ziegler, L. (2011, April). *It takes a village to effect change: The CATALST course teaching experiment*. Invited presentation at the National Council of Teachers of Mathematics Research Pre-session, Indianapolis, IN by A. Zieffler.
- [7] Garfield, J., delMas, R., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. A. (2011, March). *Different flavor of introductory statistics: Teaching students to really cook*. Invited presentation given to the Center for Statistical Information, Rikkyo University, Tokyo, Japan by J. Garfield and R. delMas.
- [6] delMas, R., Garfield, J., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (2011, February). *A different flavor of introductory statistics: Teaching students to really cook*. Invited presentation at Stat Chat, Macalester College, St. Paul, MN by the CATALST team.
- [5] delMas, R., Garfield, J., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (2011, February). *A different flavor of introductory statistics: Teaching students to really cook*. Invited presentation at the Department of Statistics, Brigham Young University, Salt Lake City, UT by R. delMas.
- [4] delMas, R., Garfield, J., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (2011, February). *A different flavor of introductory statistics: Teaching students to really cook*. Invited presentation at the Fariborz Maseeh Department of Mathematics and Statistics, Portland State University, Portland, OR by B. delMas.
- [3] Garfield, J., delMas, R., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (2011, January). *A different flavor of introductory statistics: Teaching students to really cook*. Invited poster presented at the AAAS and NSF sponsored CCLI-TUES Principal Investigators' conference, Transforming Undergraduate Education in STEM: Making and Measuring Impacts, Washington, DC by J. Garfield.
- [2] delMas, R., Garfield, J., Zieffler, A., Bjornsdottir, A., Le, L., Isaak, R., Park, J., & Ziegler, L. (2011, January). *A different flavor of introductory statistics: Teaching students to really cook*. Poster presented at The Joint Mathematics Meetings, New Orleans, LA by R. delMas.

- [1] delMas, R., Garfield, J., Zieffler, A., **Le, L.**, Isaak, R., & Ziegler, L. (2011, January). *A different flavor of introductory statistics: Teaching students to really cook*. Invited presentation at the Centre for Methodology of Educational Research, Katholieke Universiteit Leuven, Belgium by R. delMas.

WORKSHOPS, SEMINARS, GUEST SPEAKER, AND WEBINARS

- [18] **Le, L.** (2021, July). *Teaching statistics*. Invited speaker during a lunch+learn session for Memorial Sloan Kettering Quantitative Sciences Undergraduate Research Experience (QSURE) 2021 summer interns.
- [17] **Le, L.**, Lock Morgan, K., & McGowan, L. (2021, June). *Engaging students during the COVID-19 health crisis*. Invited video submission for Taylor and Francis online.
<https://www.routledge.com/go/taylor-and-francis-experts-on-statistical-data-and-modeling-around-covid-19>.
- [16] **Le, L.**, & Shore, M. (2019, Dec.). *Effective Teaching*. Invited guest lecturer for PubH 8403: Research Skills in Biostatistics course for PhD Biostatistics students.
- [15] Dileria, A., **Le, L.**, & Shore, M. (2018, Dec.). *Effective Teaching*. Invited guest lecturer for PubH 8403: Research Skills in Biostatistics course for PhD Biostatistics students.
- [14] **Le, L.**, Shore, M., & Wolfson, J. (2017, Dec.). *Effective Teaching*. Invited guest lecturer for PubH 8403: Research Skills in Biostatistics course for PhD Biostatistics students.
- [13] **Le, L.**, Brearley, A., Buchanan, E., Matthes, D., & Simcik, M. (2017, December). *Flip out! Insights for incorporating the flipped method into your classroom*. A seminar presented at the School of Public Health, University of Minnesota, Minneapolis, MN.
- [12] Brearley, A., Le, C., **Le, L.**, Weber, E. (2016, Nov.). *Effective Teaching*. Invited guest lecturer for PubH 8403: Research Skills in Biostatistics course for PhD Biostatistics students.
- [11] **Le, L.**, Buchanan, E., & Jetter, M. (2016, October). *Active learning in the classroom*. A seminar presented at the Department of Biostatistics, University of Minnesota, Minneapolis, MN.

- [10] Gonzalez, A., **Le, L.**, & O'Brien, J. (2016, March). *Active learning*. A seminar presented at the Department of Epidemiology, University of Minnesota, Minneapolis, MN.
- [9] Le, L. (2016, Jan.). *The Islands: Virtual people, real problems*. A speed talk presented at the Ignite symposium: The future of public health (<https://www.sph.umn.edu/news/ignite-symposium-the-future-of-public-health/>) at the School of Public Health, University of Minnesota, Minneapolis, MN.
- [8] **Le, L.**, Reilly, C., Telke, S., & Weber, E. (2015, Nov.). *Effective Teaching*. Invited guest lecturer for PubH 8403: Research Skills in Biostatistics course for PhD Biostatistics students.
- [7] **Le, L.**, Reilly, C., & Telke, S. (2014, Nov.). *Effective Teaching*. Invited guest lecturer for PubH 8403: Research Skills in Biostatistics course for PhD Biostatistics students.
- [6] **Le, L.**, Reilly, C., & Telke, S. (2013, Nov.). *Effective Teaching*. Invited guest lecturer for PubH 8403: Research Skills in Biostatistics course for PhD Biostatistics students.
- [5] delMas, R., **Le, L.**, Parker, N., & Ziegler, L. (2013, May). *How to implement a randomization-based introductory statistics course: The CATALST curriculum*. A workshop presented at United States Conference on Teaching Statistics, Raleigh-Durham, NC by the CATALST team.
- [4] Isaak, R., **Le, L.**, Ziegler, L., Garfield, J., Zieffler, A., & delMas, R. (2012, May). *A flavor of the CATALST course: Using randomization-based methods in an introductory statistics course*. An invited workshop presented at the First Biennial Electronic Conference on Teaching Statistics by R. Isaak, L. Le, and L. Ziegler.
- [3] Garfield, J., delMas, R., Zieffler, A., **Le, L.**, Ziegler, L., & Isaak, R. (2012, January). *CATALST implementers workshop*. A workshop for CATALST implementers presented at the Joint Mathematics Meetings, Boston, MA by the CATALST team.
- [2] Isaak, R., **Le, L.**, Ziegler, L., Garfield, J., Zieffler, A., & delMas, R. (2011, June). *Create an iron chef in statistics classes?* Invited webinar presented for the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), The Ohio State University, Columbus, OH by R. Isaak, L. Le, and L. Ziegler.

- [1] Garfield, J., delMas, R., Zieffler, A., Rossman, A., Chance, B., Holcomb, J., Cobb, G., Isaak, R., Le, L., & Ziegler, L. (2011, May). *CATALST implementers workshop*. A workshop for CATALST implementers presented at The United States Conference on Teaching Statistics, Raleigh, NC by the CATALST team.

INTERNAL RESEARCH FUNDING

Partnership for Affordable Content (PFAC). University of Minnesota Libraries funded April 30, 2015, \$1,500, Le, L., Telke, S., Leduc, R., Wolfson, J., & Brearley, A. (PIs).

Fellowship for Teaching in Active Learning Classrooms. University of Minnesota Academic Health Center funded July 9, 2018, \$1,500, Shore, M., & Le, L. (PIs).

EXTERNAL RESEARCH FUNDING

Defining the Quantitative and Computational Skills of Incoming Science Students. Howard Hughes Medical Institute funded February 2013–February 2017, P. Overvoorde, P. Brodfuehrer, R. Drewell, J. Belitsky, C. Umbanhower, and E. Stanhope (PIs). Grant 52007678. Part of the assessment development team.

UNFUNDED RESEARCH

Statistics Teaching Inventory (STI). Fry, E., Le, L., Legacy, C., & Zieffler, A. (PIs).

Biostatistics Assessment for Medical Researchers. Brearley, A., Foti, S., & Le, L. (PIs).

GRADUATE RESEARCH EXPERIENCE

Collaborative Research: Change Agents for Teaching and Learning Statistics (CATALST). National Science Foundation funded 2008 – 2011, J. Garfield, R. delMas, and A. Zieffler (PIs). DUE-0814433. Graduate Research Assistant: Part of the team to develop the curricular materials, teach the curriculum, and create a summative assessment on statistical thinking. Analyzed the qualitative student data for the assessment.

Collaborative Research: Evaluation and Assessment of Teaching and Learning About Statistics (e-ATLAS). National Science Foundation funded June 1, 2011– May 31, 2013, Garfield, J., Pearl, D., delMas, R., & Zieffler, A. (PIs).

EVALUATION PROJECTS

Collaborative Research: INCIST: Improving National acceptance of computationally intensive statistical techniques. National Science Foundation funded September 2009–August 2012, W. West and R. Woodard (PIs). DUE- 0817397. Part of the evaluation team for the grant.

Collaborative Research: INCIST: Improving National acceptance of computationally intensive statistical techniques. National Science Foundation funded September 2009–August 2012, W. West and R. Woodard (PIs). DUE- 0817397. Part of the evaluation team for the grant.

Creating a teaching and learning infrastructure for introductory statistics redesign. National Science Foundation funded July 2008–June 2010, R. Gould (PI). DUE-0737126. Part of the evaluation team for the grant.

ADVISING AND MENTORING

Supervised Teaching Activities

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| 2013-present | Mentor/Supervisor , Teaching Assistants, Biostatistics graduate students that assist in the courses I teach, helping them to develop teaching skills |
| 2015-present | Mentor/Supervisor , Classroom Teaching Assistants, Biostatistics graduate students that participate in the teaching apprenticeship in the courses I teach <ul style="list-style-type: none">• Jaron Arbet• James Normington• Cami Terrill |
| Summer 2021 | Mentor/Supervisor , Research Assistants, Biostatistics graduate students that assisted in developing teaching materials <ul style="list-style-type: none">• Jennifer Czachura• Kollin Rott |

Committee Advising

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| 2018 | Committee member/reader , Trishna Sharma, MPH graduate student in public health administration and policy, University of Minnesota |
| 2017 | Committee member , Ghazaleh Sadr Dadres, MPH graduate student in maternal and child health (epidemiology), University of Minnesota |

Mentoring/Career Advising

- 2021-present **Informal mentor**, Shu-Min Liao, Assistant Professor of Mathematics and Statistics, Amherst College, American Statistical Association (ASA) Statistics and Data Science Education Mentoring Program
- 2018-present **Informal mentor**, Vimal Rao, PhD graduate student in statistics education, University of Minnesota
- Spring 2020 **Mentor**, Lauren Berry, PhD graduate student in quantitative psychology at University of Minnesota enrolled in GRAD 8200: Practicum for Future Faculty course, provided feedback and advice on teaching statistics
- 2016-2018 **Informal mentor**, Xarviera Appling, PhD graduate student in Environmental Health, University of Minnesota
- 2019 **Informal mentor**, Ericka Lara Ovaes, MPH graduate student in Health Policy and Management, University of Minnesota

Educational Consultant

- 2019-present **Informal educational consultant**, Christopher Desjardins, Assistant Professor of Mathematics and Statistics, Saint Michael's College
- 2018-present **Informal educational consultant**, Michael Jiroutek, Associate Professor of Clinical Research, Campbell University

PROFESSIONAL DEVELOPMENT

- 2017-2018 **Mentee**, ASA Statistical Education Mentoring Program, paired with Julia Sharp (mentor), Colorado State University
- 2009-present **Participant**, professional development activities, such as attending teaching conferences/seminars/webinars (e.g., United States Conference on Teaching Statistics, Evidence-based Teaching Guide – On Inclusive Teaching (CBE-Life Science Education)), Center for Educational Innovation workshops (e.g., Facilitating Student Engagement in Synchronous Zoom Sessions), and regularly reading teaching articles (e.g., Journal of Statistics and Data Science Education, Faculty Focus).

SERVICE

Service to the Statistics Education Profession

- 2021-present **Associate co-director**, Research for Consortium for the Advancement of Undergraduate Statistics Education (CAUSE)

- July 2021 **Co-organizer**, Inaugural 2021 Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) Research Satellite meeting, a 3-hour virtual symposium for building community among statistics education researchers, discussing the current state and future priorities for undergraduate statistics education research in the United States, and identifying how CAUSE can better support statistics education research
- 2021-present **Section Editor**, *Journal of Statistics and Data Science Education*, Section on Teaching Statistics in the Health Sciences.
- 2020-2021 **Associate Editor**, *Journal of Statistics and Data Science Education*, Section on Teaching Statistics in the Health Sciences.
- 2020-present **Member of Advisory Board**, Quantitative Sciences Undergraduate Research Experience (QSURE) summer internship program, a 10-week program for undergraduate students (capped at 10 students) that is NCI R25 funded that aims to expose students to quantitative sciences and build a pipeline for graduate studies and careers in the field.
- 2019-present **Co-editor**, statistics education blog, *Statistics Teaching and Learning Corner* (*statTLC.com*).
- 2018-present **Co-organizer**, Stat Chat, an informal but informative get-together of local statistics educators
- 2015-present **Organizer**, Happy Hour Journal Club
- 2021-present **Reviewer**, *Health Data Science Review*.
- 2014-present **Reviewer**, *Technology Innovations in Statistics Education*.
- 2009-present **Reviewer**, *Journal of Statistics Education/Journal of Statistics and Data Science Education*.
- March 2021 **Writer**, *AMATYC Statistics Committee*, blog post on research on student engagement titled “Five Ways to Promote Student Engagement in a Statistics Course”.
- 2018 **Chair**, *Joint Statistical Meetings*.
- 2010 **Reviewer**, *Proceedings of the International Conference on Teaching Statistics*.
- Service to the University of Minnesota
- 2021-present **Committee member**, Biostatistics Student Awards Committee.
- 2019-2020 **Committee member**, School of Public Health Undergraduate Steering Committee.

- Spring 2020 **Facilitator**, Teaching Interest Group, a non-credit bearing replacement for EPSY 5271: Becoming a Teacher of Statistics course, Division of Biostatistics
- 2016-present **Committee member**, Biostatistics Education Committee (formally known as Curriculum Committee).
- 2015-2017 **Committee member**, Re-imagining the MPH Core Curriculum, University of Minnesota, Twin Cities.
- 2014-present **Led** the revision and administration of the Equivalence Exam of Biostatistics I.
- 2017-present **Led** the revision of the TA/RA performance evaluations in the Biostatistics department, the movement to shift the evaluations to be online, and **upkeep and report** the evaluations each semester.