

Chelsey Legacy

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CHELSEY A. LEGACY

CURRICULUM VITAE

EDUCATION

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|------|---|
| 2022 | University of Minnesota
Educational Psychology, Ph.D. candidate
Emphasis: Statistics Education
Advisors: Dr. Robert delMas & Dr. Andrew Zieffler |
| 2017 | Iowa State University
Statistics M.S.,
Advisor: Dr. Amy G. Froelich |
| 2014 | St. Lawrence University
Mathematics B.S.
Minors: Statistics & Religious Studies
Advisors: Dr. Daniel Look & Dr. Ivan Ramler |

TEACHING EXPERIENCE

Teaching Assistant Professor

University of Minnesota, Department of Educational Psychology

2022-Present

Course Instructor

University of Minnesota, Department of Educational Psychology

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| 2018-2021 | EPSY 3264: Basic and Applied Statistics |
| 2019-2023 | EPSY 5261: Introductory Statistical
Methods |
| 2023 | EPSY 5262: Intermediate Statistical
Methods |
| <i>George Washington University, Health Sciences</i> | |
| 2018-2020 | HSCI 2117: Introductory Statistics for
Health Sciences |

Iowa State University, Department of Statistics

2017
2015-2016

STAT 104: Introduction to Statistics
STAT 101: Principles of Statistics

Teaching Assistant

University of Minnesota, Department of Educational Psychology

2018

EPSY 5261: Introductory Statistical
Methods

2017

EPSY 3264: Basic and Applied Statistics

2017

EPSY 1261: Introduction to Data
Visualization

Iowa State University, Department of Statistics

2016
2014-2015
2014-2015

STAT 401: Statistics Methods Research
STAT 104: Introduction to Statistics
STAT 101: Principles of Statistics

MANUSCRIPTS IN REVIEW/PREPARATION

Legacy, C., Zieffler, A., Rao, V. N., & DelMas, R. Vampires and Star-Crossed Lovers: Secondary Teachers' Reasoning about the Connections Between Multivariate Data and Visualization. *Statistics Education Research Journal*. [In Review:2023]

Legacy, C., Le, L., Zieffler, A., Fry, E., & Corrales, P. The Teaching of Introductory Statistics: Results of a National Survey. *Journal of Statistics and Data Science Education*. [In Review:2023]

PUBLISHED MANUSCRIPTS

[3] Rao, V.N.V., Legacy, C., Zieffler, A., & delMas, R. (2023). Designing a sequence of activities to build reasoning about data and visualization. *Teaching Statistics*, 45(S1), S80-S92. <http://doi.org/10.1111/test.12341>

- [2] **Legacy, C.**, Zieffler, A., Brondos 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), 17. <https://doi.org/10.52041/serj.v21i1.63>
- [1] **Legacy, C.**, Zieffler, A., Baumer, B. S., Barr, V., & Horton, N. J. (2022). Facilitating team-based data science: Lessons learned from the DSC-WAV project. *Foundations of Data Science*. <https://doi.org/10.3934/fods.2022003>

CONFERENCE PAPERS AND PROCEEDINGS

Legacy, C., Rao, V. N., Zieffler, A., & delMas, R. (2022). Data to graphs and back: Secondary teachers' reasoning about the aesthetic mappings that link data and visualizations. In K. Makar, and D. Ben-Zvi (Eds.), *Proceedings of SRTL-12*.

POSTERS AND PRESENTATIONS

- [20] Horton, N., Garcia, R., **Legacy, C.** (2023, June). *Facilitating team-based data science: agile and scrum for undergraduates* [Workshop]. United States Conference on Teaching Statistics, State College, PA.
- [19] Dragich, E., Beckman, M., Çetinkaya-Rundel, M., Dogucu, M., **Legacy, C.**, Tackett, M., & Zieffler, A. (2023, June). Creating a standardized assessment to measure learning in introductory data science courses. Poster presented at the Research Satellite of the United States Conference on Teaching Statistics, State College, PA.
- [18] Dragich, E., Beckman, M., Çetinkaya-Rundel, M., Dogucu, M., **Legacy, C.**, Tackett, M., & Zieffler, A. (2023, June). Creating a standardized assessment to measure learning in introductory data science courses. Poster presented at the United States Conference on Teaching Statistics, State College, PA.
- [17] Lisinker, R., Zieffler, A., & **Legacy, C.** (2023, June). Talking in code: Code review as a form of communication. Poster presented at the Research Satellite of the United States Conference on Teaching Statistics, State College, PA.
- [16] Lisinker, R., Zieffler, A., & **Legacy, C.** (2023, June). Talking in code: Code review as a form of communication. Poster presented at the United States Conference on Teaching Statistics, State College, PA.
- [15] Vivas Corrales, P., **Legacy, C.**, Le, L., Zieffler, A., & Fry, E. (2023, June). Statistics Teaching Inventory: Exploring the alignment of introductory statistics instructors' teaching and assessment practices to

professional recommendations. Poster presented at the Research Satellite of the United States Conference on Teaching Statistics, State College, PA.

- [14] Lisinker, R., Zieffler, A., & **Legacy, C.** (2023, July) Talking in Code: Code Review as a Form of Communication. Poster presented at the 13th Annual Satellite Conference of the International Association for Statistical Education, Toronto, Canada.
- [13] Lisinker, R., Zieffler, A., & **Legacy, C.** (2023, June). Talking in code: Code review as a form of communication. Invited lightning talk presented at the Research Satellite of the United States Conference on Teaching Statistics, State College, PA.
- [12] **Legacy, C.**, Zieffler, A., Fry, E., Le, L. (2021, August). *COMPUTES: Evaluating the state of computing in introductory statistics*. [Poster presentation]. 12th Annual Satellite Conference of the International Association for Statistical Education, online.
- [11] Rao, V. N. V., **Legacy, C.**, Brown, J. M., Zieffler, A., & delMas, R. (2021, August). *Data-to-graphs and back: Secondary teachers' reasoning about aesthetic mappings in data visualization* [Poster presentation]. 12th Annual Satellite Conference of the International Association for Statistical Education, online.
- [10] McNamara, A., Beckman, M., **Legacy, C.**, Zieffler, A., delMas, R.C., & Rao, V.N.V. (2021, August). *Integrating computation in statistics: Instructional decisions for Teaching R* [Speed presentation]. Joint Statistical Meetings, Seattle, Washington.
- [9] Baumer, B., Horton, N., **Legacy, C.**, Zieffler, A. (2021, June). *Facilitating team-based data science: Lessons learned from the DSC-WAV Project* [Breakout Session]. United States Conference on Teaching Statistics, online.
- [8] Rao, V.N.V., **Legacy, C.**, & Zieffler, A. (2021, June). *Students' perspectives on entering a data science career after experiential learning with local community organizations* [Poster presentation]. United States Conference on Teaching Statistics, online.
- [7] **Legacy, C.**, Zieffler, A., Fry, E., & Le, L. (2021, June). *The state of computing in introductory statistics* [Poster presentation]. United States Conference on Teaching Statistics, online.
- [6] McNamara, A., **Legacy, C.**, Rao, V., Butler, E. B., delMas, R., Zieffler, A., & Beckman, M. (2021, June). *Computing in the statistics curriculum: Lessons learned from the educational sciences* [Poster presentation]. United States Conference on Teaching Statistics, online.
- [5] Fry, E., **Legacy, C.**, Zieffler, A., & Le, L. (2020, October). *The state of computing in introductory statistics* [Poster presentation]. Women in Statistics & Data Science Conference, Pittsburgh, PA, United States.
- [4] Rios, J. A., Soland, J., & **Legacy, C.** (2020, April). *Aggregate-level ability estimation accuracy under varying non-effortful responding types and rates* [Paper presentation]. Annual Meeting of the National Council on Measurement in Education, San Francisco, CA, (online)

- [3] **Legacy, C.**, Zieffler, A., Fry, E., & Le, L. (2020, February). *The state of computing in introductory statistics* [Poster presentation]. Graduate Student Research Day, University of Minnesota, Minneapolis, MN.
- [2] **Legacy, C.** (2018, October). *An analysis of syllabi from data visualization courses* [Presentation]. QME Reads, Minneapolis, MN.
- [1] **Legacy, C.**, Ramler, I. (2013, July). *An interactive program to model autocorrelation using sums of rational functions* [Presentation]. Los Alamos National lab, Albuquerque, NM.

RESEARCH EXPERIENCE

2019-22	Graduate Student Research Assistant: DSC-WAV Evaluation Team
2019-22	Graduate Assistantship: College in the Schools Faculty Coordinator Assistant for EPSY 3264
2015	ISU Summer Research Assistantship: Using Electronic Assessments to Inform Student Learning and Instruction in Introductory Statistics
2013–14	Honors Statistics Senior Thesis: An Interactive Program to Model Autocorrelation Using Sums of Rational Functions
2013	SLU Summer Fellowship: An Interactive Program to Model Autocorrelation Using Sums of Rational Functions

SERVICE

2022-Present	Undergraduate Advisory Committee Member
2022-Present	Reviewer: <i>Statistics Teaching and Learning Center, statistics education blog</i>
2021-Present	Journal Reviewer: <i>Journal of Statistics and Data Science Education</i>
2021-22	Journal Reviewer: <i>Foundations of Data Science</i>
2019	Journal Reviewer: <i>Statistics Education Research Journal</i>

Awards

2022	Quantitative Methods in Education Graduate Student Research Award
2019	Quantitative Methods in Education Graduate Student Teaching Award