

# Chelsey Legacy

✉legac006@umn.edu

## CURRICULUM VITAE

### EDUCATION

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2017-2022	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

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#### Teaching Assistant Professor

*University of Minnesota, Department of Educational Psychology*

2022

#### Course Instructor

*University of Minnesota, Department of Educational Psychology*

2018-2021

EPSY 3264: Basic and Applied Statistics

2019-2022

EPSY 5261: Introductory Statistical  
Methods

*George Washington University, Health Sciences*

2018-2020

HSCI 2117: Introductory Statistics for  
Health Sciences

*Iowa State University, Department of Statistics*

2017

STAT 104: Introduction to Statistics

2015-2016

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	STAT 401: Statistics Methods Research
2014-2015	STAT 104: Introduction to Statistics
2014-2015	STAT 101: Principles of Statistics

## MANUSCRIPTS IN REVIEW/PREPARATION

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- [2] **Legacy, C.**, Rao, V.N.V, Brown, J.M., Zieffler, A., & delMas, R. (*in preparation*). Data-to-graphs and back: Secondary teachers' reasoning about aesthetic mappings in data visualization.
- [1] Rao, V.N.V, **Legacy, C.**, McNamara, A., Beckman, M., Zieffler, A., delMas, R.C. (*in preparation*). Using computation in statistics classrooms: reflections and recommendations through the lens of educational psychology.

## MANUSCRIPTS

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- [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), 7. <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

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**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

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- [12] **Legacy, C.**, Zieffler, A., Fry, E., Le, L. (2021, August). *COMPUTES: Evaluating the state of computing in introductory statistics*. [Poster presentation]. 12<sup>th</sup> 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]. 12<sup>th</sup> 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

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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

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2022	Reviewer: <i>Statistics Teaching and Learning Center, statistics education blog</i>
2021-22	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**

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