

Julie M. Deeke

CONTACT INFORMATION

Department of Statistics
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Champaign, IL 61820

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EDUCATION

Ph.D. in Statistics

University of Michigan, Ann Arbor, 2019

Dissertation: Approaches for Identifying Biases in Single-Cell RNA-Sequencing Data

Advisor: Johann Gagnon-Bartsch

M.A. in Statistics

University of Michigan, Ann Arbor, 2016

B.S. in Statistics (Highest Distinction)

B.A. in Anthropology (Highest Distinction and Departmental Honors)

Minor in Mathematics

Certificate in Liberal Arts and Management Program

Indiana University, Bloomington, 2013

POSITIONS

Teaching Assistant Professor

Statistics Department, University of Illinois

Aug 2021 - Present

LAS Educational Excellence Mentor

College of Liberal Arts and Sciences, University of Illinois

Aug 2025 - Present

Lecturer I

Statistics Department, University of Michigan

Jan 2020 - Apr 2021

Graduate Student Research Assistant

with Johann Gagnon-Bartsch

Jan - Dec 2018, Aug - Dec 2019

with Jack Miller

Jan - Apr 2016

Statistics Department, University of Michigan

Graduate Student Instructor

Statistics Department, University of Michigan

Jan - May 2019

Sept 2013 - Dec 2017

Graduate Student Instructional Consultant

Tracks: General & Instructional Technology Focus

Center for Research on Learning and Teaching, University of Michigan

Aug 2015 - May 2019

Graduate Student Instructor Mentor

Assignments: General Statistics & Intro Statistics

Statistics Department, University of Michigan

Sept 2016 - Dec 2017

Fall 2014, Fall 2015

PUBLICATIONS

Deeke, J.M., J.A. Gagnon-Bartsch (2020). Stably Expressed Genes in Single-Cell RNA-Sequencing. *Journal of Bioinformatics and Computational Biology*: Vol. 18, Iss. 1.

PRESENTATIONS

J. Deeke, Three Demonstrations that Build Intuition for Hypothesis Test Properties. Poster & Beyond at *United States Conference on Teaching Statistics*, July 2025. Ames, IA.

J. Deeke, Building Cohesive Values and Learning Goals for a Sequence of Core Data Science Courses. Breakout Session at *Electronic Conference on Teaching Statistics*, June 2024. Virtual.

J. Deeke, T. Ellison, Helping Students Select an Appropriate Analysis Technique in a Second Course in Data Science. Poster at *Electronic Conference on Teaching Statistics*, June 2024. Virtual.

T. Ellison, J. Deeke, Framing and Broadening Understanding of Research Norms in a Second Course in Data Science. Poster at *Electronic Conference on Teaching Statistics*, June 2024. Virtual.

J. Deeke, K. Findley, Supporting Professional Development Through Teaching Assistantships. Breakout Session at *United States Conference on Teaching Statistics*, June 2023. State College, PA.

K. Findley, J. Deeke, Creating a Culture for Growth in TA Training. Oral presentation at *Mathematical Society Western Sectional Meeting*, May 2022. Virtual.

J. Deeke, Promoting Student Choice in Initial Interactions with Pre-Recorded Lecture Materials. Poster at *United States Conference on Teaching Statistics*, May 2021. Virtual.

J. Deeke, J. Gagnon-Bartsch, Identifying endogenous reference genes for single-cell RNA-sequencing. Poster at *Women in Big Data at Michigan*, November 2018. Ann Arbor, MI.

J. Deeke, J. Gagnon-Bartsch. Identifying endogenous reference genes for single-cell RNA-sequencing. Poster at *Michigan Institute for Data Science Annual Symposium*, October 2018. Ann Arbor, MI.

J. Deeke, J. Gagnon-Bartsch. Identifying endogenous reference genes for single-cell RNA-sequencing. Oral presentation at *Western North American Region of International Biometric Society Annual Conference*, June 2018. Edmonton, Alberta, Canada.

J. Deeke, J. Gagnon-Bartsch. Identifying endogenous reference genes for single-cell RNA-sequencing. Poster at *Health Sciences Challenge Symposium, Michigan Institute for Data Science*, May 2018. Ann Arbor, MI.

J. Deeke, J. Gagnon-Bartsch. Identifying endogenous reference genes for single-cell RNA-sequencing. Poster at *Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS)*, Apr 2018. Ann Arbor, MI.

J. Deeke, J. Gagnon-Bartsch. Modeling amplification biases in single-cell RNA-sequencing. Poster at *Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS)*, Mar 2017. Ann Arbor, MI.

J. Ghekas. A Systematic Discrepancy in Auerbach and Ruff's Stature Determination Equations: Long Bone Stature Estimates from Two Mississippian Cemeteries at Schild. Oral presentation at *Hutton Honor College Undergraduate Symposium and Research Fair*, April 2013. Bloomington, Indiana.

J. Ghekas. Comparison of bone separation methods of *Ototylomys phyllotis*. Poster at *Hutton Honor College Undergraduate Symposium and Research Fair*, April 2012. Bloomington, Indiana.

WORKSHOPS

Statistics Department, University of Illinois

- K. Findley, J. Deeke. PhD Student Orientation and Onboarding. (5 times, 2021 - 2025)
- K. Findley, J. Deeke. Teaching Assistant Training. (3 times, 2021 - 2023)

Illinois Data Science Club, University of Illinois

- J. Deeke. Model Selection. (Oct 2024)
- J. Deeke. Logistic Regression and Classification. (Oct 2023)

Graduate Student Instructor Teaching Orientation, University of Michigan

- J. Deeke, et al. Grading in Quantitative Courses and the Sciences (7 times, 2016 - 2020)
- J. Deeke, D. Bouavichith. Handling Office Hours (1 time, 2018)
- J. Deeke, A. Baleisis, A. Cao. The Science of Learning (1 time, 2018)
- J. Deeke, K. Collette, S. Kusano. Grading: Policies, How-To, and Tips (2 times, 2017)
- J. Deeke, T. Wang. Being a Successful Lab Instructor (1 time, 2017)
- J. Deeke. Inclusive Teaching (1 time, 2016)

Center for Research on Learning and Teaching Workshop Series, University of Michigan

- J. Deeke, et al. Using Digital Tools to Facilitate Student Collaboration (2 times, 2018)
- J. Deeke, M. Bollard. Adapting Strategies for Different Disciplinary Contexts (1 time, 2018)
- J. Deeke, et al. Teaching with Technology: Incorporating Digital Media (1 time, 2017)
- J. Deeke, J. Beaumont. Teaching to Retain Students in Engineering (1 time, 2017)
- J. Deeke, et al. Organize, Streamline, & Simplify: Teaching Effectively with Technology (1 time, 2017)
- J. Deeke, et al. Canvas for GSIs: Pedagogies & Practicalities (3 times, 2015-2016)

Enriching Scholarship, University of Michigan Teaching and Technology Collaborative

- J. Deeke, et al. Let's Make a Screencast! (3 times, 2016-2018)
- J. Deeke, M. Schmidt. Pedagogies For Developing Students' Computer Programming Skills (1 time, 2018)
- J. Deeke, M. Schmidt, E. Zhu. Teaching with Technology: How Can I Include All Students? (1 time, 2017)
- J. Deeke, K. Pakkala. Canvas for GSIs and Instructors Teaching Multi-Section Courses (1 time, 2017)
- J. Deeke, M. Garcia, M. Schmidt. Everyday Technology in Teaching (1 time, 2017)
- J. Deeke, K. Nielsen. How to Make a Large Course Small for Your Students (1 time, 2016)

COURSES TAUGHT

University of Illinois

Instructor of record for the following courses:

- *Methods of Applied Statistics*, Statistics 420/Actuarial Sciences and Risk Management 450 (3 cr., Fall 2021, Spring 2022, Fall 2022, Fall 2023, Spring 2024, Spring 2025)
- *Data Science Exploration*, Statistics 207 (4 cr., Spring 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024, Spring 2025)

University of Michigan

Instructor of record for the following courses:

- *Introduction to Data Science*, Statistics 206 (4 cr., Fall 2020, Winter 2021)
- *Introduction to Statistics and Data Analysis*, Statistics 250 (4 cr., Fall 2020, Winter 2021)
- *GSI Training*, Statistics 993 (1 cr., Fall 2020)

Lab instructor or grader for the following courses:

- *Introduction to Statistics and Data Analysis*, Statistics 250 (Fall 2013, Spring 2014, Fall 2014, Fall 2015, Spring 2017, Winter 2020)
- *Applied Regression Analysis*, Statistics 413 (Fall 2016, Winter 2019)
- *Introduction to Quantitative Research Methods*, Statistics 403 (Fall 2017)
- *Survey Sampling Techniques*, Statistics 480 (Winter 2017)
- *Introduction to Theoretical Statistics*, Statistics 426 (Winter 2015)
- *Introduction to Probability*, Math/Statistics 425 (Winter 2015)
- *Making Sense of Data*, Statistics 150 (Winter 2014)

Coursera

Contributed to the creation of a MOOC for:

- Statistics with Python (Jan - Dec 2018)

DEPARTMENT SERVICE

Teaching Assistant Training Committee (Aug 2021 - Present)

Data Science Education Committee (Aug 2021 - Present)

Academic Integrity Appeals Committee (Aug 2021 - Present)

Graduate Student Awards Committee (Aug 2022 - Present)

Chair for Aug 2023 - Present

Undergraduate Programs Committee (Aug 2022 - Present)

Faculty Teaching Awards Committee (Oct 2022 - May 2024)

Chair for Aug 2023 - May 2024

Search Committee for Non-Tenure Track Positions (Aug 2021 - May 2022, Aug 2024 - May 2025)

UNIVERSITY SERVICE

Senator, Campus Faculty Senate

University of Illinois, Urbana-Champaign (Aug 2023 - May 2025)

Graduate Student Statistical Topics Seminar Series Organizer,
 Rackham Interdisciplinary Workshop, University of Michigan (Sept 2016 - Apr 2017)

Teaching Orientation Practice Teaching Facilitator,
 Center for Research on Learning and Teaching, University of Michigan (Aug 2015, Jan 2016, Jan 2017, Aug 2017)

SERVICE TO THE
 PROFESSION

Referee for *Journal of Statistics and Data Science Education*

PROFESSIONAL
 CERTIFICATION

Graduate Teacher Certificate	Dec 2018
Center for Research on Learning and Teaching, University of Michigan	
Preparing Future Faculty	May 2018
Center for Research on Learning and Teaching, University of Michigan	

AWARDS AND
 HONORS

List of Teachers Ranked As Excellent by their Students, *University of Illinois* (Fall 2022)

Rackham Professional Development Grant, *Rackham Graduate School, University of Michigan* (Nov 2018)

Professional and Organizational Development (POD) Network in Higher Education Career Development Grant, *Graduate Student, Professional Student, and Postdoctoral Scholar Special Interest Group of POD* (Nov 2018)

Rackham Conference Travel Grant, *Rackham Graduate School, University of Michigan* (June 2018)

Best Departmental Poster, *Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), University of Michigan* (Apr 2018)

Rackham Summer Award, *Rackham Graduate School, University of Michigan* (Summer 2016)

Outstanding Teaching Award, *Department of Statistics, University of Michigan* (May 2015)

University of Michigan Department of Statistics Fellowship (Sept 2013 - May 2014)

Cox Research Scholar, *Indiana University* (Sept 2009 - May 2013)

Phi Beta Kappa, Gamma of Indiana Chapter (Spring 2012)