

# Julie M. Deeke

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## CONTACT INFORMATION

Department of Statistics  
703 S Wright St, Room 44  
Champaign, IL 61820

*E-mail:* jdeeke@illinois.edu

## 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 Associate Professor**

Statistics Department, University of Illinois

**Aug 2026 - Present**

### **LAS Educational Excellence Mentor**

College of Liberal Arts and Sciences, University of Illinois

**Aug 2025 - Present**

### **Teaching Assistant Professor**

Statistics Department, University of Illinois

**Aug 2021 - Aug 2026**

### **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., T. Ellison (2023). Data Science Exploration, [exploration.stat.illinois.edu.eBook](http://exploration.stat.illinois.edu.eBook).

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, Homework 0: Demonstrating Limitations and Practical Considerations for Using AI as a Course Tool. Poster & Beyond at *Electronic Conference on Teaching Statistics*, June 2026. Virtual.

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.

## COURSES TAUGHT

### University of Illinois

Instructor of record for the following courses:

- *Data Science Exploration*, Statistics 207 (4 cr., Spring 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024, Spring 2025, Fall 2025, Spring 2026)
- *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)

### 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)

## WORKSHOPS

### College of Liberal Arts & Sciences Faculty, University of Illinois

- J. Deeke. Practical Approaches for Working with TAs Series (Feb 2026)
  - Setting Expectations
  - Training TAs to Grade, with Anna Wright
  - Evaluating and Providing Feedback to TAs

### Statistics Department, University of Illinois

- K. Findley, J. Deeke. Teaching Assistant Training (6 times, 2021 - 2026)
- K. Findley, J. Deeke. PhD Student Orientation and Onboarding (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)

DEPARTMENT  
SERVICE

**Teaching Assistant Training Committee** (Aug 2021 - Present)

**Data Science Education Committee** (Aug 2021 - Present)

**Graduate Student Awards Committee** (Aug 2022 - Present)  
Chair for Aug 2023 - Present

**Undergraduate Programs Committee** (Aug 2022 - Present)

**Academic Integrity Appeals Committee** (Aug 2021 - May 2025)

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|                            | <b>Faculty Teaching Awards Committee</b> (Oct 2022 - May 2024)<br>Chair for Aug 2023 - May 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |
|                            | <b>Search Committee for Non-Tenure Track Positions</b> (Aug 2021 - May 2022, Aug 2024 - May 2025)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
| UNIVERSITY SERVICE         | <b>Senator</b> , Campus Faculty Senate<br>University of Illinois, Urbana-Champaign (Aug 2023 - May 2025)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |
|                            | <b>Graduate Student Statistical Topics Seminar Series Organizer</b> ,<br>Rackham Interdisciplinary Workshop, University of Michigan (Sept 2016 - Apr 2017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |
|                            | <b>Teaching Orientation Practice Teaching Facilitator</b> ,<br>Center for Research on Learning and Teaching, University of Michigan (Aug 2015, Jan 2016, Jan 2017, Aug 2017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
| SERVICE TO THE PROFESSION  | <b>Referee for <i>Journal of Statistics and Data Science Education</i></b><br><br><b>Referee for <i>Technology Innovations in Statistics Education</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |
| PROFESSIONAL CERTIFICATION | <b>Graduate Teacher Certificate</b><br>Center for Research on Learning and Teaching, University of Michigan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Dec 2018</b> |
|                            | <b>Preparing Future Faculty</b><br>Center for Research on Learning and Teaching, University of Michigan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>May 2018</b> |
| AWARDS AND HONORS          | List of Teachers Ranked As Excellent by their Students, <i>University of Illinois</i> (Fall 2022)<br>Rackham Professional Development Grant, <i>Rackham Graduate School, University of Michigan</i> (Nov 2018)<br>Professional and Organizational Development (POD) Network in Higher Education Career Development Grant, <i>Graduate Student, Professional Student, and Postdoctoral Scholar Special Interest Group of POD</i> (Nov 2018)<br>Rackham Conference Travel Grant, <i>Rackham Graduate School, University of Michigan</i> (June 2018)<br>Best Departmental Poster, <i>Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), University of Michigan</i> (Apr 2018)<br>Rackham Summer Award, <i>Rackham Graduate School, University of Michigan</i> (Summer 2016)<br>Outstanding Teaching Award, <i>Department of Statistics, University of Michigan</i> (May 2015)<br>University of Michigan Department of Statistics Fellowship (Sept 2013 - May 2014)<br>Cox Research Scholar, <i>Indiana University</i> (Sept 2009 - May 2013)<br>Phi Beta Kappa, Gamma of Indiana Chapter (Spring 2012) |                 |