

Claire Kelling

Curriculum Vitae

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github.com/ckelling

EDUCATION

Dual PhD in Statistics and Social Data Analytics, August 2022

Pennsylvania State University, State College, PA

Funding Awarded:

Year 1: Paul M. Doty Distinguished Graduate Fellowship

Year 2: Big Data Social Science, National Science Foundation IGERT Fellowship

Year 3-4: Center for Social Data Analytics Research Assistant

Year 5-6: National Institute of Justice Graduate Research Fellowship

B.S. Statistics, B.A. Economics, May 2016, Virginia Tech, Blacksburg, VA

GPA: 3.99/4.0 (Summa Cum Laude, Honors Scholar)

RESEARCH/PROFESSIONAL EXPERIENCE

Research activities highlighted by Penn State's Science Journal: [Statistics for Social Justice](#)

Assistant Professor, Carleton College – Northfield, MN, Fall 2022- Current

Director of the Statistics and Public Policy Group at Carleton College (September 2024-Current)

Co-Founder of the Data/Justice Lab located in Minneapolis, Minnesota (Fall 2023-Current)

Co-Director and Co-Founder of the Data Science, Police Accountability, and Community Engagement (DSPACE) Group (September 2023-Current)

SELECTED PUBLICATIONS

Kelling, C. (2024, December). *Statisticians address analysis of police use of force*. CHANCE, 37(4):4–5. ([link](#))

Kelling, C., Allen, C., Brault, E., & Matos P. (2024, December). *Issues in the spatial analysis of police use of force data*. CHANCE, 37(4):11–17. ([link](#))

Brault, E., Kelling, C., Wyatt Bourgeois, J., Taheri, S., Jones, A., Charles, C., Belair, K., & Banks, D. (2024, December). *Toward standardization of police use of force data*. CHANCE, 37(4):24–30. ([link](#))

Mendible, M. & Kelling, C. (2024, December). *Counting on justice: Bridging quantitative research and community empowerment*. MAA FOCUS, 44(6):24–27. ([link](#))

Kelling, C.*, Haensch, A. *, Mendible, A. *, Brooks, S., Wiedemann, A., Aminian, M., Hasty, W., & Higdon, J. (2024, August). *Data Collection and Analysis for Small-Town Policing: Challenges and Recommendations*. Statistics and Public Policy 11, no. 1 (2024): 2379270. (doi.org/10.1080/2330443X.2024.2379270, [link](#)). * indicates equal contribution

Kelling, C. & Haran M. (2022, July) *A two-stage Cox process model with spatial and nonspatial covariates*. Spatial Statistics: 100685. (doi.org/10.1016/j.spasta.2022.100685, [link](#))

Schutte S. & Kelling, C. (2022, April). *A Monte Carlo Analysis of False Inference in Spatial Conflict Event Studies*. PLOS ONE 17(4): e0266010. (doi.org/10.1371/journal.pone.0266010, [link](#))

Kelling, C., Korkmaz, G., Graif, C., & Haran M. (2020, March). *Modeling the Social and Spatial Proximity of Crime: Domestic and Sexual Violence Across Neighborhoods*. Journal of Quantitative Criminology, 37(2), 481-516. (doi.org/10.1007/s10940-020-09454-w, [link](#))

Arnsbarger, M., Goldstein, J., **Kelling, C.,** Korkmaz G., & Keller, S. (2019, December). *Spatial Modeling of Response Time to Structure Fire*. The American Statistician. (doi: 10.1080/00031305.2019.1695664, [link](#)).

SELECTED GRANTS

2023-2025: **National Science Foundation Grant Number 2316857** (Role: Principal Investigator)

- Program: Launching Early-Career Academic Pathways (LEAPs) in the Mathematical and Physical Sciences.
- Title: “Development of Models in Spatial Statistics for Complex Policing and Social Science Applications”
- Amount: \$199,708

2023-2024: National Science Foundation Grant Number 2328509 (Role: Principal Investigator)

- Program: Conferences and Workshops in the Mathematical Sciences
- Title: “Conference: Ingram Olkin Forum at Carleton College Conference”
- Amount: \$20,000, Co-PIs: Dean Knox, Tarak Shah, Greg LanzaLotto

2023-2024: Carleton College Academic Civic Engagement (ACE) Co-Creation Grant (\$4,000)

- Title: “Spatial Characterization of Policing Activity in Ward 9”
- Amount: \$4,000, with Confluence Studio

Fall 2020 National Institute of Justice (NIJ) Graduate Research Fellowship (\$60,065 - [link](#))

- Title: “Advances in Spatial Statistical Methodology for Urban Crime”
- One of 26 Fellows selected across all disciplines, and the only fellow in statistics.

SELECTED SERVICE & LEADERSHIP ACTIVITIES

2023-2025 Co-Chair of the American Statistical Association’s Committee on Law and Justice Statistics

2023-2024 Member of [Inaugural Stats Forward](#) Cohort, American Statistical Association

2022-2025 Faculty Advisor of the Gender Minorities in Statistics and Mathematics (GeMMS) Student Group at Carleton College

2022-2025 Organizer of the New Faculty Writing Group, Carleton College

2022-2025 Member of the Young Alumni Board, Virginia Tech

2017-2022 [Pennsylvania Commission for Women](#): appointed by Pennsylvania Governor Tom Wolf for two two-year terms

2019-2020 Student Body President, Graduate and Professional Student Association at Penn State

SELECTED ACADEMIC AWARDS & HONORS

Spring 2022 Alumni Association Dissertation Award, Penn State

Fall 2016 **Rhodes Scholarship**, [Finalist](#)

Spring 2021 Best Paper Award- Joint Statistical Meetings

Jointly sponsored by the Social Statistics Section (SSS), Government Statistics Section (GSS), and Survey Research Methods Section of the American Statistical Association.

SERVICE & LEADERSHIP AWARDS & HONORS

Spring 2016 **Champion of Change**, White House (News: [White House](#), [Virginia Tech](#), [Fox19](#), [WSET](#))

Spring 2020 Graduate Student Service Award, Penn State

Spring 2019 Rose Cologne Keystone Citizen Award, Penn State