Logan Crowl

PH.D. STUDENT · PUBLIC POLICY AND MACHINE LEARNING

Carnegie Mellon University, Pittsburgh, PA 15213

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Research Interests

- **Policy Interests**: Crime, transportation, education, and problems that affect cities
- **Methodological Interests**: Machine learning for hypothesis generation, causal inference, and social science
- **Just For Fun**: Sports analytics

Education

Carnegie Mellon University — *Pittsburgh, PA*

PH.D. IN PUBLIC POLICY AND MACHINE LEARNING — *2022 - Present*
  Advisors: Daniel Nagin and Rayid Ghani

Carleton College — *Northfield, MN*

B.A. IN MATHEMATICS/STATISTICS — *2014 - 2018*
  Advisor: Laura Chihara

Selected Experience

University of Chicago Crime Lab and Booth Center for Applied AI — *New York, NY*

RESEARCH DATA SCIENTIST — *2019-2022*
- Advised by Prof. Sendhil Mullainathan and Prof. Jens Ludwig
- Led research projects studying how machine learning can be used to understand human decision-making and complement social science research

New York Yankees — *New York, NY*

QUANTITATIVE ASSOCIATE-BASEBALL OPERATIONS — *2018-2019*
- Conducted data-driven research projects on baseball strategy and player valuation using models and simulations
- Provided recommendations and evaluations of players and teams to front office executives to aid roster construction, in-game strategy, and organizational philosophy

Awards & Honors

2024	**Suresh Konda Award for Best First Research Paper**, Heinz College
2018	**Summa Cum Laude (Top 2%)**, Carleton College
2017	**Phi Beta Kappa**, Carleton College Chapter
2017	**Patricia V. Damon Endowed Scholarship**, Carleton College
2014-2018	**Dean's List**, Carleton College

Publications

PUBLISHED

Crowl, L., Dutta, S., KhudaBukhsh, A. R., Severnini, E., & Nagin, D. S. (2025). Measuring criticism of the police in the local news media using large language models. Proceedings of the National Academy of Sciences, 122(8), e2418821122. https://doi.org/https://doi.org/10.1073/pnas.2418821122

Sung, R. J., Wilson, A. T., Lo, S. M., **Crowl, L.**, Nardi, J., St. Clair, K., & Liu, J. M. (2019). BiochemAR: an augmented reality educational tool for teaching macromolecular structure and function. Journal of chemical education, 97(1), 147-153.

RESEARCH CONTRIBUTIONS

Ludwig, J., & Mullainathan, S. (2024). Machine learning as a tool for hypothesis generation. The Quarterly Journal of Economics, 139(2), 751-827.

Ludwig, J., Mullainathan, S., & Spiess, J. (2017). Machine-learning tests for effects on multiple outcomes. arXiv preprint arXiv:1707.01473.

Teaching Experience

CARNEGIE MELLON UNIVERSITY

Spring 2025	**Machine Learning in Practice**, Teaching Assistant
Fall 2024	**Machine Learning for Public Policy**, Teaching Assistant
Summer 2024	**Applied Statistics for Public Policy (PPIA)**, Teaching Assistant
Spring 2024	**Machine Learning Foundations with Python**, Teaching Assistant
Fall 2023 & Fall 2024	**Intermediate Statistics and Statistics for IT Managers**, Teaching Assistant

CARLETON COLLEGE

Spring 2017	**Applied Regression Analysis**, Teaching Assistant
Winter 2017	**Introduction to Statistics**, Teaching Assistant

Miscellaneous

INTERNSHIP EXPERIENCE

2017	**Benchmark Analytics**, Research Intern, IT, and Personal Assistant	*Chicago, IL*
2015, 2016	**University of Chicago Urban Labs**, Data Science Intern	*Chicago, IL*
2014	**CARA Program**, Computer Lab Assistant	*Chicago, IL*

VOLUNTEER EXPERIENCE

2019-2022	**Justice, Equity, Diversity, and Inclusion Committee**, University of Chicago Crime Lab
2017-2018	**Student Departmental Advisor**, Carleton College Mathematics Department
2015-2018	**Statistical Consultant**, Northfield, MN

EXTRA

- **Tools & Languages**: Python, R, Latex, Git, PyTorch, Bash, SQL
- **Methods & Models**: large language models, convolutional neural networks, probabilistic graphical models, supervised models for structured data (boosted trees, penalized regression, etc.), clustering, causal inference, and hierarchical/multilevel models
- **Things I Like**: Movies, sports, Chicago, Moby Dick, and deviating from recipes