

Connor Concannon

Data Science Leader and PhD Candidate

Astoria, NY 11103

✉ connor.concannon@gmail.com ☎ +1 630 408 1803 🌐 [concannon](#) | Updated: November 8, 2018

SKILLS & TOOLS

Agile software development, data science, machine learning, natural language processing, supervised learning techniques, unsupervised learning, business intelligence, time series analysis, and program evaluation

R, Python, Linux, SQL, MongoDB, Git, Shiny Server, Scikit-learn, Spark, Keras, RMarkdown, Docker, Apache NiFi, Apache Airflow, DigitalOcean, Leaflet, Django, Tableau, Analysis Services, STATA, and SPSS

EMPLOYMENT

New York County District Attorney's Office

Deputy Director of Innovation Unit

2017-Present

Build enterprise Shiny and Django applications to analyze millions of phone call and social media records, and use natural language processing to prioritize transcribed calls for review. Launch enterprise search tool. Use machine learning techniques to identify disparity in decision-making and support policy changes.

Deputy Director of Analytics

2015-2017

Implemented machine learning model to predict defendant risk levels that significantly reduced agency caseload and jail usage. Managed a team of analysts charged with developing business intelligence solutions to agency inquiries. Served as agency liaison with vendors and consultants; as well as collaborated with academic institutions on research and technology projects.

Supervisory Policy Analyst

2012-2015

Performed ad-hoc analysis, reporting, and visualization of criminal justice data. Planned, designed, and built warehouse of New York County criminal justice data. Led software integration efforts and collaborated with IT Division on data flow policies and procedures.

Self Employed

Statistical Consultant

2014-Present

Import, tidy, and model criminal justice data sets in support of national risk assessments and program evaluation projects.

Illinois Department of Juvenile Justice

Research Analyst

2010-2012

Used SPSS to analyze trends in correctional populations and report to executive staff. Developed database to track unusual incidents. Evaluated treatment program effectiveness. Calculated the effects of proposed legislation on juvenile justice facilities.

EDUCATION

CUNY Graduate Center, Ph.D. Criminal Justice

ABD, expected 2019

Research Interests: Machine learning, reproducible research, prosecutorial decision-making

Loyola University Chicago, M.A. Criminal Justice Research

2012

Marquette University, B.A. Sociology

2007

PUBLICATIONS

Articles

Jung, J., Concannon, C., Shroff, R., Goel, S., & Goldstein, D. (2017). [Creating simple rules for complex decisions](#). Harvard Business Review.

Jung, J., Concannon, C., Shroff, R., Goel, S., & Goldstein, D. (2017, February). [Simple rules for complex decisions](#). arXiv preprint: arXiv:1702.04690.

Acknowledged

Kutateladze, B., & Andiloro, N. Prosecution and Racial Justice in New York County. Report Submitted to the National Institute of Justice. Vera Institute of Justice. 2014.

FUNDING

2019 Spring Training Support. \$1,000.

2018 Graduate Student Doctoral Fellowship. National Institute of Justice. \$32,000/Pending.

2018 Association of Doctoral Programs in Criminal Justice Professional Development. \$3,000/Pending.

2018 Early Research Initiative Provost's Pre-Dissertation Fellowship. City University of New York. \$4,000.

2011 Outstanding Paper Award. Illinois Academy of Criminology. \$500.

INVITED PRESENTATIONS

2019 Shiny Phones: Call Detail Record Analysis in Law Enforcement. E-poster at rstudio::conf. Austin, TX.

2018 Analytics Exchange: Does Open Analytics Matter? Presentation to Mayor's Office of Data Analytics. New York, NY.

2018 Data-Driven Prosecution. New York County District Attorney's Office Symposium on Intelligence Driven Prosecution. New York, NY.

2018 Business Intelligence in Prosecution. Presentation to NYU Graduate Course "Advanced Topics in Urban Informatics - Data and Algorithms in the Criminal Justice System". New York, NY.

2017 Business Intelligence in Prosecution. Presentation to NYU Graduate Course "Data Science for Social Impact". New York, NY.

2017 Machine Learning: From Prototype to Production. American Society of Criminology Annual Meeting. New Orleans, LA.

2016 Business Intelligence for the Masses. Presentation to The City of New York Municipal Information Technology Council. New York, NY.

2011 Following Up on Juvenile Probation Outcomes. Presentation at the American Society of Criminology Annual Meeting. Washington D.C..

LEADERSHIP

2017 Doctoral Student Representative, Curriculum Committee.

2011 Treasurer, Graduate Student Association.