

Connor Concannon

Data Science Leader and PhD Candidate

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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

SKILLS & TOOLS

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

R, Python, Linux, SQL, MongoDB, Git, Shiny Server, RMarkdown, Docker, Apache Airflow, DigitalOcean, Leaflet, Django, Tableau, Analysis Services, STATA, SPSS

EMPLOYMENT

New York County District Attorney's Office:

Deputy Director, Special Projects Unit 2017-Present

Build and deploy tools to conduct statistical analysis of subpoenaed phone records, perform anomaly detection, search agency data sets, and improve case processing. Use machine learning techniques to quantify disparity in prosecutorial decision-making and support policy shifts. Serve as agency liaison with vendors and consultants; as well as collaborate with academic institutions on research and technology projects.

Deputy Director of Analytics 2015-2017

Built and managed a team of analysts dedicated to reporting and analysis of crime and prosecution data. Implemented statistical models using multiple data sources to predict defendant risk levels.

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

Clean, merge, 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.

Recoded variables into usable formats for further study. Managed large amounts of data effectively. Interpreted and communicated results to principal investigators.

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

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

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.