

# ERIC CHANDLER

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## EDUCATION

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### Harris School of Public Policy, University of Chicago

Chicago, IL

Master of Science in Computational Analysis and Public Policy

June 2022

- Courses: crime policy, police reform, econometrics, deep learning, AI ethics

### Carnegie Mellon University

Pittsburgh, PA

Bachelor of Science in Physics

May 2013

- Research projects: cosmology, plasma physics, surface science

## WORK EXPERIENCE

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### Justice Project, University of Chicago

Chicago, IL

Data Scientist

July 2022 - Feb. 2024

- Built largest-ever dataset on police nonprofit activity by filtering and matching entities across 64k tax records
- Led FOIA campaign targeting hundreds of local governments, revealing police influence on policy research
- Critically evaluated commercial, academic, and government datasets to identify novel research opportunities

### Urban Resiliency Initiative, University of Chicago

Chicago, IL

Graduate Research Assistant

Oct. 2021 - May 2022

- Demonstrated viability of applying speech recognition models to a real-life public interest audio dataset
- Investigated correlation between audibility and presence of race, gender, or location words
- Established a modeling pipeline that streamlined access and onboarding for the next research cohort

### Center for Data and Computing, University of Chicago

Chicago, IL

Graduate Data Science Intern

June 2021 - Aug. 2021

- Partitioned and merged high-res satellite images to attribute rate of deforestation around palm oil plantations
- Guided teammates in scaling clustering analysis onto cloud and high-performance computing resources

### Concentric, Inc.

Cambridge, MA

Simulation Engineer

Sept. 2019 - Mar. 2020

- Re-designed internal data structures, decreasing memory overhead by dozens of gigabytes
- Discovered and fixed a randomization error, reducing estimation bias by up to 60%
- Surveyed and prototyped faster and more efficient numerical optimization methods

## PUBLICATIONS

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(Pending Review) Shachter SY, **Chandler E**, Misra K, & Vargas R. (2024, March 1). "The Social Structure of Private Donations to Police." <https://doi.org/10.31235/osf.io/pfjmy>

## SKILLS

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### Programming Languages

Python | R | Java | SQL | C | C# | Haskell

### Infrastructure

git | Docker | AWS ECS | Jenkins | unix shell

### Analytical

social network analysis | causal inference |  
spatial joins | web scraping | machine learning

### Languages

conversational in Spanish