ERIC CHANDLER

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WORK EXPERIENCE

Justice Project, University of Chicago   Chicago, IL
Data Scientist   July 2022 - Feb. 2024
- Built most extensive dataset to date on private donations to police, using machine learning and NLP methods to filter, tag, and link 754k semi-structured tax-records, collected into novel sociological dataset
- Performed hypothesis testing and network analysis to highlight critical flows of private money to police depts
- Led FOIA campaign sent to hundreds of local governments, revealing conflicts of interest in policy research

Department of Comparative Human Development, University of Chicago   Chicago, IL
Research Assistant   Oct. 2021 - May 2022
- Adapted cutting-edge speech recognition models in PyTorch to transcribe noisy police radio dataset, facilitating research into officer-dispatcher miscommunication, situational awareness, and stress
- Investigated correlation between training data audibility and presence of race, gender, or address words

Data Science Institute, University of Chicago   Chicago, IL
Data Science Intern   June 2021 - Aug. 2021
- Measured palm oil industry deforestation by stacking and segmenting high-res satellite surveys in rasterio
- Taught teammates how to scale spatial clustering analysis on Google Earth Engine and HPC cluster resources

Concentric, Inc.   Cambridge, MA
Simulation Engineer   Sept. 2019 - Mar. 2020
- Re-designed agent-based simulation data structures, decreasing memory overhead by dozens of gigabytes
- Prototyped fast algorithms to calibrate a model and visualize multivariate objective function landscape

Concentric, Inc.   Cambridge, MA
Software QA Engineer   July 2016 - Sept. 2019
- Maintained automated full-stack Java testing suite for desktop, database, and cloud computing products
- Migrated obsolete Hudson CI system to Bitbucket Pipelines to support growing team and project complexity

McMaster-Carr Supply Company   Elmhurst, IL
Systems Developer   Sept. 2013 - June 2016
- Designed and deployed Neo4J database of website traffic to predict navigation and identify user pain points
- Created dev-ops tools to locally clone production front and back-end state, enabling safe triage of live bugs

EDUCATION

Harris School of Public Policy, University of Chicago   Chicago, IL
Master of Science in Computational Analysis and Public Policy   June 2022
- *Courses: econometrics, program evaluation, natural language processing, ai ethics*

Carnegie Mellon University   Pittsburgh, PA
Bachelor of Science in Physics, Minor in Professional Writing   May 2013

SKILLS

Programming Languages

Python | R | SQL | unix shell | Excel

Tools & Frameworks

pandas | tidyverse | Jupyter | RMarkdown

Socrata | leaflet | dvc | make | git

Methods

causal inference | descriptive statistics | lit review

web scraping | geospatial | unit testing

Certifications   **Languages**

Azure AZ-900; *(AZ-104 soon)*   Spanish (conversant)