

Ted Jesus C. Chua

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EDUCATION

Emory University

BSc, Economics

Atlanta, GA

Aug 2017 – Aug 2021

- Coursework: Econometrics, Financial Econometrics, Mathematical Statistics, Advanced Statistics, Abstract Vector Spaces, Linear Algebra, Linear Optimization, Nonlinear Optimization, Empirical Methods & Machine Learning

PROFESSIONAL EXPERIENCE

Crime Lab, University of Chicago

Data Analytics Associate

Chicago, IL

Jul 2022 – Present

- **Conduct statistical analysis of randomized controlled trials that implement and evaluate violence intervention initiatives** at the University of Chicago
 - * Finalized study findings for Youth Advocate Programs, namely analyzing engagement quality measures by subgroup and identifying heterogeneous treatment effects from instrumental variables regression
 - * Designed modular pipelines in Python that process public policing data—tens of millions in observations across 20+ cities—to determine violent police districts for recruitment into the Policing Leadership Academy (PLA)
- Develop experimental designs to address research questions in collaboration with all levels of internal staff
- Maintain GitLab codebases and engage in peer code review for replicability and compliance with data privacy regulations
- Mentor a summer-fall intern by managing workstreams and setting weekly check-ins to foster professional development
- Wrote and deployed a web scraper in Python that autonomously scraped 150,000+ observations across 5000 pages from a public database to inform PLA programming

PERSONAL PROJECTS

Geospatial Analysis of Chicago Neighborhoods (Python, SQL)

Fall 2023

- Built an **ETL pipeline** by sourcing; pre-processing; & harmonizing administrative datasets from the US Census Bureau API and Chicago Data Portal into a **local database**.
- Queried tables for interactive **visualization** of neighborhood-level statistics of Chicago, including robbery rates (population adjusted) in the past five years.

Song Genre Prediction (Python)

Spring 2020

- Leveraged tree-based methods to predict song genres based on their audio features, culminating in a **random forest model** with 70% accuracy among nine possible genres.

UNDERGRADUATE EXPERIENCE

Emory Office of Advancement and Alumni Engagement

User Experience Coordinator

Atlanta, GA

Sept 2020 – Apr 2021

Emory Division of Pediatric Infectious Diseases

Image Analyst (Melikian Lab)

Atlanta, GA

Sept 2019 – Dec 2019

Atlanta Department of Watershed Management

Safety and Security Intern

Atlanta, GA

May 2019 – Aug 2019

Emory Clinical Cardiovascular Research Institute

Research Assistant

Atlanta, GA

Sept 2018 – Apr 2019

ADDITIONAL INFO

Languages: Filipino, English

Software: Python, R, PostgreSQL

Personal Website: teddythepooh.netlify.app