

# Ted Jesus C. Chua

919-208-0376 | Chicago, IL | chuatedjesusc@gmail.com

## EDUCATION

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### BSc, Quantitative Economics

Emory University, Atlanta, GA, 2017 – 2021

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

## PROFESSIONAL EXPERIENCE

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### Crime Lab, University of Chicago

Chicago, IL

Research Analyst

Mar 2024 – Present

- Engage in statistical analysis of crime reduction programs using Python, R, and SQL
- Develop experimental designs to address research questions in collaboration with research and analytics teams
- Present weekly reports & briefings to internal staff for strategic decision-making and external communications

Associate Research Analyst

Jul 2022 – Mar 2024

- Conducted program evaluation of violence intervention initiatives in a randomized controlled trial setting
  - \* **Performed regression analyses of violence involvement in R** to finalize study findings of Youth Advocate Programs
  - \* **Wrote and deployed a web scraper in Python** that autonomously collected 5000+ pages of data from a public database to support the Policing Leadership Academy's (PLA) outreach efforts with Columbus Police
  - \* **Spearheaded the integration of the FBI Crime Data API in Python** through an end-to-end pipeline to validate Uniform Crime Reporting (UCR) data and streamline technical assistance requests in PLA
  - \* **Designed modular pipelines in Python and R** that process policing data to determine violent jurisdictions for PLA recruitment, leading to 52 units randomized into control/treatment across the first two cohorts
  - \* **Executed large-scale data reconciliation in R using high-performance computing (Slurm)** to produce a short-list of police agencies that satisfy PLA programming constraints
- Mentored an intern by managing workstreams and setting weekly check-ins to foster professional development
- **Leveraged the Chicago Police Department (CPD) Data Infrastructure, an internal PostgreSQL database**, to query confidential public safety data—crimes, arrests, victimizations—for analyses

## ADDITIONAL INFO

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**Languages:** Filipino, English

**Software:** Python, R, PostgreSQL

**Personal Website:** [teddythepooh.netlify.app](https://teddythepooh.netlify.app)