

# Ted Jesus C. Chua

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## EDUCATION

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### BSc, Quantitative Economics (QSS)

Emory University, Atlanta, GA, Aug 2017 – Aug 2021

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

## EMPIRICAL PROJECTS

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### Spectral Clustering of Music

Mar 2021 – Apr 2021

- Examined the inter-connectivity of music using spectral clustering in a team of four students

### U.S. Housing Prices During the Great Recession

Dec 2020

- Created a linear regression model of residential property sales to estimate the impact of a recession on the elasticity of housing prices with changes in lot area

### Cardiovascular Disease Classification

Mar 2020

- Performed regularized logistic regression to classify cardiovascular disease, achieving a model accuracy of 70%

### Song Genre Prediction

Mar 2020

- Implemented tree-based methods on Spotify data to predict the genre of a song based on audio features

### Text Analysis of Bruno Mars' Music

Jan 2020

- Utilized word frequencies and sentiment analysis to compare & contrast Bruno Mars' three studio albums

## WORK HISTORY

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### User Experience Coordinator

Sept 2020 – Apr 2021

Emory Office of Advancement and Alumni Engagement

Remote

- Resolved a 9-month backlog of alumni data update requests by writing a Python script that automatically matches the requests with the alumni's unique identification numbers in the master data
- Optimized the monthly process of finding discrepancies in active users between two systems that are used for alumni relations, reducing the time it takes to finish the task by 80% through Python (from 120 minutes down to 25 minutes)
- Conducted weekly audits of alumni events on the back-end of the alumni website to ensure that they were properly created
- Provided technical assistance by email to 400+ alumni who faced difficulties in utilizing alumni resources online

### Research Analyst

Sept 2019 – Dec 2019

Emory Division of Pediatric Infectious Diseases

Atlanta, GA

- Analyzed virus-cell fusions in Icy and ImageJ at the Melikian Lab to identify colocalizations, viral entry, and particles that culminate in infection

### Safety and Security Intern

May 2019 – Aug 2019

Atlanta Department of Watershed Management

Atlanta, GA

- Maintained the safety of spectators and participants in the 2019 Peachtree Road Race by surveying water meters and manhole covers along the route for evidence of tampering prior to the event
- Communicated proper protocols of legally restoring service with Atlanta residents who are under investigation for water theft
- Researched properties flagged for water theft to determine discrepancies between tenant occupancy, billing history, and other relevant information

### Research Assistant

Sept 2018 – Apr 2019

Emory Clinical Cardiovascular Research Institute

Atlanta, GA

- Collaborated with a team of researchers to manage a database of 7000+ patients who undergo cardiac catheterization at Emory University Hospital
- Evaluated diagnostic reports on patients' cardiovascular health to gather relevant findings for research in the genetic and environmental bases of cardiovascular disease

## ADDITIONAL INFO

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**Languages:** Filipino, English

**Software:** Python, R

**Project Portfolio:** teddythepooh.netlify.app