

# Ted Jesus C. Chua

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## EMPIRICAL PROJECTS

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| <b>Spectral Clustering of Music</b>  | Mar 2021 – Apr 2021 |
| • Examined the inter-connectivity of music using spectral clustering in a team of four students  |                     |
| <b>U.S. Housing Prices During the Great Recession</b>  | 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 |                     |
| <b>Cardiovascular Disease Classification</b>   | Mar 2020            |
| • Performed regularized logistic regression to classify cardiovascular disease, achieving a model accuracy of 70%  |                     |
| <b>Song Genre Prediction</b>   | Mar 2020            |
| • Implemented tree-based methods on Spotify data to predict the genre of a song based on audio features  |                     |
| <b>Text Analysis of Bruno Mars' Music</b>  | Jan 2020            |
| • Utilized word frequencies and sentiment analysis to compare & contrast Bruno Mars' three studio albums   |                     |

## WORK HISTORY

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| <b>User Experience Coordinator</b>   | 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  |                      |
| <b>Research Analyst</b>  | 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  |                      |
| <b>Safety and Security Intern</b>  | 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   |                      |
| <b>Research Assistant</b>  | 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  |                      |
| <b>Sales Associate</b>   | Jul 2018 – Aug 2018  |
| Staples, Inc. Raleigh, NC  |                      |
| • Provided exceptional customer service in a fast paced environment during back-to-school season   |                      |
| • Managed multiple responsibilities on a daily basis: addressing customer inquiries, processing kiosk orders & point-of-sale transactions, restocking merchandise, and answering phone calls in a timely manner                            |                      |

## EDUCATION

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| <b>BSc, Quantitative Economics (QSS)</b>  | 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 |  |

## ADDITIONAL INFO

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**Languages:** Filipino, English  
**Software:** Python, R  
**Project Portfolio:** teddythepooh.netlify.app