

Theodore Charm

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Work Experience

MonAfrique Lifestyle

May 2022–Present

Research Scientist Intern

- Lead a research project that examines the relationship between fair trade and human development
 - * Analyze **time-series cross-sectional (TSCS) data** on the trade laws of countries worldwide (i.e. restrictions on intellectual property, ability to make value-added goods, etc.) and evaluate their effects on human development (i.e. economic growth, a child's propensity to be productive in society, etc.)
 - * Employ various time-series models to examine TSCS data, such as **RE, FE, ARIMA, ADL, and ECM models**

Graduate Researcher

Aug. 2016–Present

University of Texas at Austin

- * Analyzed political participation in Hong Kong in the **Empirical Implications of Theoretical Models (EITM)** framework
 - Examined survey results with **Generalized Linear Regression models, Maximum Likelihood Estimation (MLE), Factor Analysis, and Extreme Bounds Analysis**
- * Designed and implemented a **survey experiment** in Hong Kong on political participation
 - Analyzed survey results using **conjoint analysis** and **post-stratification**
- * Working as a statistical consultant for Professor Kara Kockelman's research team on a project about traffic crashes at intersections across Texas
 - Predict number of crashes and crash severities at Texas' intersections using MLE and machine learning models
 - Compare model performances between **MLE** and **ML models** in predicting hotspot crash areas across Texas

Teaching Assistant

University of Texas at Austin

Aug. 2016–Present

ICPSR, University of Michigan

Jun. 2020–Aug. 2020

- Collaborated in a team of nine graduate students assigned as TAs to one course
- Specialized in designing and implementing online surveys on students using **Qualtrics**
- Led lab sessions for graduate-level **Bayesian statistics** courses comprised of 20 Ph.D. students and researchers with varying levels of domain knowledge

Education

University of Texas at Austin, TX

Aug. 2016–Present

Ph.D. in Government, Expected Aug. 2022

M.S. in Statistics

School of Oriental and African Studies, United Kingdom

Sep. 2013–Sep. 2014

MA in Taiwan Studies

University of Oxford, United Kingdom

Oct. 2009–Jun. 2013

BA and MMath in Mathematics

Skills

Technical: Experience in SQL, R, Python, Stata, SPSS, Tableau, Microsoft Excel

Languages: Native in Cantonese; fluent in Mandarin Chinese and English

Statistics/ Machine learning: Regression (OLS, GLS, maximum likelihood), Bayesian analysis, Time series, ANOVA, Supervised learning (classification and regression), Unsupervised learning (clustering and dimensionality reduction)

Other: U.S. Citizenship Status