GIOVANNI COLITTI

EDUCATION

2018

National Taiwan University

M.S. in Agricultural Economics (4.0 GPA)

♀ Taipei, Taiwan

2016

California State University, Channel Islands

B.A. in Economics (3.8 GPA)

• Camarillo, CA

EXPERIENCE

2018 | Current

Data Scientist

Grimmway Enterprises

♀ Bakersfield, CA

- Trained machine learning models in R that improved predictive accuracy over previous methods by 40-50%.
- Used linear/mixed integer programming to optimize business operations.
- Performed complex data cleaning and exploration on large datasets.
- Wrote statistical analysis reports to determine causal relationships.
- Developed custom functions in R for cross-validation of time-series data with irregular time slices.
- Created Shiny apps and dashboards to visualize projections, implement dynamic optimization problems, and generate automated reports.
- Managed database tables using R and SQL.
- Scraped open source weather data online and set up API connections.
- Created Grimmway R package used internally to facilitate common programming tasks.
- Used Docker/DockerHub and ShinyProxy to publish applications and reports online.
- Performed sample size calculations and provided spatial sampling recommendations.
- Communicated analytical methods and results to the entire executive team.

2015

Data Analyst Intern

Small Business Development Center

Q Camarillo, CA

- Analyzed small business metrics, such as revenue per employee, to predict which clients have the highest risk of bankruptcy.
- Used model predictions to efficiently allocate limited consulting resources to assist at-risk businesses.
- · Trained executive team in statistical methods.

2014

Research Assistant

California State Univeristy, Channel Islands

• Camarillo, CA

- $\boldsymbol{\cdot}$ Collected and cleaned data from various online sources using Stata programming.
- Created visualizations in Stata and wrote literature reviews of scientific articles related to Chinese & Indian stock, currency, and debt markets.

CONTACT INFO

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https://github.com/gacolitti

https://GiovanniColitti.com

in https://tinyurl.com/yfrrpukt

SKILLS

Analytical Methods: regression, classification, feature engineering, linear programming and optimization methods, causal analysis, Bayesian and Monte Carlo methods

Coding: R (caret, brms, shiny, data.table, dplyr, ggplot, plotly, rmarkdown, lpSolve, purrr, rvest, httr, xml2, devtools, rsample, recipes, shinydashboard, flexdashboard, dbplyr, DBI), Stata, SQL, Git, Docker

Languages: English, Chinese

COURSEWORK

R Programming (I/II)
Ecological Data Analysis in R
Quantitative Business Science
Econometrics (I/II)
Financial Econometrics
Web Applications in R with Shiny
Quantitative Methods
Applied Microeconomics
Advanced Macroeconomics

SELECTED RESEARCH

Do Concealed Firearms Decrease Crime? An Analysis Using Active Concealed Firearm License Data in the United States

Used a unique dataset on county-level concealed firearms permits and applied two-stage least squares estimation & poisson regression models to show that concealed firearms do not decrease crime. DOI: http://dx.doi.org/10.6342/NTU201800993

2018 • Do HEVs Cause More Cyclist & Pedestrian Injuries?

Used logit model & large UK accident-level dataset to show that quieter electric vehicles significantly increase pedestrian accidents net of other covariates including speed limit and urbanization. Also used Bayesian methods (MCMC) to estimate the posterior distribution and check for non-normality in estimates.

Effect of Hurricane Morakot on Agricultural Prices in Taiwan

Used a difference-in-differences (DiD) event study model and a large transaction-level dataset to quantify the casual effect of Hurricane Morakot on vegetable prices in Taiwan, adding weight to the literature that claims weather is oftentimes the most important driver of local agricultural prices.

T ACADEMIC HONORS AND AWARDS

- 2018 Thesis Competition First Place Prize
 - Master's thesis presentation competition first place winner.
- 2016 Taiwan Ministry of Education Scholarship
 - Merit scholarship for post-graduate studies in Taiwan.
- 2016 Program Honors in Ecnomomics
 - Selected by CSUCI Economics Department faculty for outstanding achievement.
- 2014 Wang Family Scholarship
 - Merit scholarship for international study in Taiwan & Mainland China.
- 2012 President's Scholarship

Highest scholastic achievement award in CSU system; only handful awarded annually.