**DAVID MERDIAN**

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**EDUCATION**

**M.A. in Applied Economics**

**B.A. in Economics, Minor: Legal Studies**

**Certificate in Business Data Analytics**

Western Kentucky University Western Kentucky University Western Kentucky University

G.P.A.: 3.50

G.P.A.: 3.32

G.P.A.: 3.16

May 2021

Dec. 2019

Dec. 2019

**QUALIFICATIONS**

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| --- | --- | --- |
| *Econometric Analysis* | *Vector Autoregression* | *Monetary Policy* |
| *Programming* | *Fund Raising* | *Budget Management* |
| *Economic Theory* | *Research/Analyze* |  |
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**Econometrics and Data Analytics**

* Experience conducting econometric analysis. Thesis research employs econometric methods measure the impact of monetary policy shocks on state economies. Proficiency in econometric analysis in R, SAS, STATA
* Graduate level econometric coursework includes cross-sectional analysis, panel data, time series, regression analysis, panel data methods, maximum likelihood estimation, vector regression, probit and logit models, and Causal Inference Regression designs (Diff-in-Diff)

**Economic Analysis**

* Knowledge of methods employed in macroeconomics analysis including Vector Autoregression and DSGE Models
* Knowledge of economic principles, quantitative techniques, and data analysis

**Computer Skills**

* R (incl. machine learning), SAS, SAS/IML, Stata, Python, PowerBI, SQL, Access

**PROFESSIONAL EXPERIENCE**

**Treasurer**, Francisco for Bowling Green City Commissioner, Bowling Green, KY

June 2020–Jan 2021

* Successfully developed and implemented grassroots fundraising strategies which resulted in an excess of

$12,000 in campaign funding

* Facilitated and managed grassroots fundraising budget and fund-raising schedule for entire campaign
* Researched Kentucky state campaign finance laws to maintain compliance
* Used economic theory to develop strong campaign policy platform
  + Policy priorities – Vacancy tax on vacant commercial and residential properties, and the rezoning of Bowling Green to allow for more dense mixed-use development to encourage public transportation and people-centric urban development

**Student Intern**, PCCW Solutions, Hong Kong

June-August, 2019

* Retrained to a serviceable proficiency in Python during the first two weeks on the job
* Constructed a database and PowerBI dashboard of Hong Kong doctors using Python web-scraping
* Modelled mobile data traffic in a PowerBI dashboard to aid PCCW’s 5G rollout planning
  + Researched and gained understanding of 5G technology and its differences vs 2G, 3G, and 4G
* Excellent letter of recommendation from supervisor

**Public Health Intelligence Intern**, London Borough of Hackney

June–August, 2018

* Assembled and analyzed General Practitioner registration data for the Borough of Hackney and City of London to assist in broader resource allocation optimization efforts
* Produced maps of this data, separated by gender, timeframe, and age group, to provide a visual means of communicating results
* Stellar letter of recommendation from supervisor

**PRESENTATIONS**

Western Kentucky University Student Research Conference

2021

* Presented a draft of my Master’s thesis to a group of non-economists and managed to enable them to understand my work

**RESEARCH PAPERS**

**Master’s Thesis**: *State-level Impacts of Monetary Policy Shocks and Implications thereof for the Optimal Currency Area Status of the United States*

* Replicated and extended Romer and Romer (2004) monetary policy shock series
* Regressed this series against Coincident Economic Index data to test OCA status of the US
* Found that the US might not be an optimal currency area, as the effect of policy shocks differed between states and thus that certain states might benefit from having their own currency

**Capstone Project**: *Impact of Environmental Factors on General Practitioner Registration Rates in the Borough of Hackney and City of London*

* Used multivariate regression to examine the effect of crime, churn, poverty, and transit access on General Practitioner registration rates
* Found that churn and crime rates generally had a statistically significant effect, while poverty and transit access did not

*Access documents @* <https://github.com/Dmerd01/Resume-and-publications>