JUGAL MARFATIA

School of Economic Sciences, Washington State University

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SKILLS

Programming: Python | SQL (Dynamic SQL, Stored-Procedures) | JavaScript

Statistical/ Visualization: Python (Pandas, NumPy, SciPy, SymPy, Bokeh, Flask) | R | Stata | High-Charts/Maps (JS) | ArcGIS | QGIS | HTML

Other: Microsoft Office | LaTeX

EDUCATION

Ph.D. Economics, (Passed Qualifying Exam)
Washington State University   📅 **Present**

Fields: Econometrics, Industrial Organization, International Economics

M.S. Statistics
Washington State University   📅 **Present**

M.A. Economics
San Diego State University   📅 **2017**

B.A. Economics
Western New England University   📅 **2015**

INDUSTRY EXPERIENCE

Regional Models Intern
San Diego Association of Governments (Sandag)

📅 2016 – 2017   📍 San Diego, CA

- Developed python based demographic and economic forecasting model. Please check the code on github: github.com/SANDAG/pydefm.
- Contributed towards the development of real estate development forecasting model also based in python. Please check the code on github: github.com/SANDAG/sandag_urbansim.
- Developed Python/SQL scripts which automated import, storage and analysis of data from external sources such as BLS, BEA, Census, California Dept. of finance, California Dept. of Education and others.
- Developed several visualization and logical check tools for data quality check purposes. Assisted on data request from other internal departments and external organizations.
- Made presentations to team members and senior executives of Sandag explaining modeling process and results.

REFERENCES

Prof. Mike Brady, Washington State University, bradym@wsu.edu
Prof. Ryan Abman, San Diego State University, rabman@mail.sdsu.edu
Prof. Clark Lundberg, San Diego State University, clundberg@mail.sdsu.edu

WORKING PAPER

Can Google Trends data be used to predict stock returns?

- Link to working paper: github.com/jugalm/Google-trends-stock-data/blob/master/final_paper.pdf
- Link to analysis code: github.com/jugalm/Google-trends-stock-data

RESEARCH

Research Assistant
San Diego State University

📅 2015 – 2017   📍 San Diego, CA

- For Professor Shoshana Grossbard, processed and compiled data for her paper on health and elderly care. Please find her working paper on this link.
- For Professor Hisham Foad, worked on issues of immigration and income inequality in the United States. Helped compile and analyze panel data from IPUMS.

TEACHING

Instructor
Washington State University

📅 2019   📍 Pullman, WA

- Econ 321-Economics of sports in America. In person (65 Students).
- Github link to see course material: link

Graduate Teaching Associate (Sole Instructor)
San Diego State University

📅 2016 – 2017   📍 San Diego, CA

- Econ 101-Fundamentals of Macroeconomics (60 Students) for 2 Semesters

AWARDS AND HONORS

- Terhune Economics Scholarship, SDSU. 2016-2017
- The Weintraub Research Scholarship, Dept. of Economics, SDSU 2017
- Center for Public Economics Scholarship, Dept. of Economics, SDSU 2017