

JUGAL MARFATIA

Data Science | Statistics | Econometrics | Machine Learning | Python | R | SQL

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🐙 github.com/jugalm

in [linkedin.com/in/jugal-marfatia](https://www.linkedin.com/in/jugal-marfatia)

M medium.com/@jmarfati

K [kaggle.com/jmarfati](https://www.kaggle.com/jmarfati)

TECHNICAL SKILLS

Programming: Python R SQL (Stored-Procedures + Dynamic SQL)

Data Science Frameworks Scikit-Learn TensorFlow Keras Pandas
NumPy SciPy Matplotlib Seaborn Ggplot2 Flask StatsModel
OpenCV Git

EDUCATION

Ph.D. Economics, (Passed Qualifying Exam)

Washington State University

📅 May 2021

Fields: Econometrics, Industrial Organization, International Economics

M.S. Statistics

Washington State University

📅 May 2021

M.A. Economics

San Diego State University

📅 May 2017

B.A. Economics

Western New England University

📅 June 2015

INDUSTRY EXPERIENCE

Regional Models/ Data Science Intern

San Diego Association of Governments ([Sandag](http://sandag.org))

📅 June 2016 – August 2017

📍 San Diego, CA

- Developed **Python** based **demographic** and **economic** forecasting model. Link: github.com/SANDAG/pydefm.
- Contributed towards the development of **real estate forecasting model** also based in **Python**. github.com/SANDAG/sandag_urbansim.
- Using Python/SQL scripts automated compilation of data from BLS, BEA, Census, California Dept. of finance, California Dept. of Education etc.
- 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 EXPERIENCE

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 EXPERIENCE

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