

Chau Nguyen

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EDUCATION

Georgetown University | McCourt School of Public Policy

Washington, DC

Master of Science in Data Science for Public Policy

August 2020 - May 2022

- Relevant coursework: Data Science Foundations, Supervised Learning, Unsupervised Learning, Neural Net and Deep Learning, Data Ethics, Communication for Data Science, Data Visualization.

University of California, Berkeley

Berkeley, CA

Bachelor of Arts in Economics

Conferral Date: May 2016

EXPERIENCE

Office of Evaluation Sciences, General Services Administration Graduate Research Assistant (MDI Scholar)

September 2021 – current

- On loan from Georgetown's Massive Data Institute to work on joint GSA - US Treasury project developing application to auto-approve applicants who qualify for emergency rental assistance from using Census data and emerging data from CARES Act and American Rescue Plan Act.

Fraym

June 2021 – September 2021

Data Science Intern

- Queried CloudWatch Logs from AWS using boto3. Utilized unsupervised learning algorithms to cluster error logs and identify issues with the company's spatial interpolation codebase.
- Created Jupyter Notebook explaining math intuitions, technical details and parameter tuning options of different density-based clustering methods for internal R&D sprint.
- Created API endpoints for raster data using fastAPI for company's REST API.
- Translated PostGIS SQL geography R functions into Python code using SQLAlchemy and GeoAlchemy.

International Monetary Fund

December 2016 – August 2020

Research Analyst — Macro-Financial Division, Research Department

June 2019 – August 2020

- Responsible for the compilation, cleanup and integration of cross-country, firm-level data for 74 countries, using Stata and Matlab, as inputs for the Corporate Vulnerability Utility module - a flagship tool of the Research Department which ranks each country's vulnerability score based on its corporate debt exposure.
- Contributed to working papers on the effects macroprudential policies have on firms by querying data from Bureau van Dijk's Orbis database using SQL and analyzing large firm-level datasets with Stata.

Research Analyst — Small States Division, Asian & Pacific Department

December 2016 – June 2019

- Managed, updated and maintained databases on real, fiscal, monetary and external sectors and provided inputs for macroeconomic forecast and economic surveillance of Samoa, Kiribati, Nauru, Tuvalu.
- Organized multilateral, high-level meetings and conferences in Fiji, Samoa and Tonga. on financial inclusion, anti-money laundering/ combating the financing of terrorism (AML/CFT) policies, and high remittance prices.
- Designed surveys to collect inputs from country authorities and development partners (Asia Development Bank, the World Bank) used to facilitate regional discussions on systemic issues in the region (dependency on foreign grants, low financial inclusion, loss of correspondent banking relationships due to weak AML/CFT compliance).

TECHNICAL SKILLS

- **Data science & analysis:** Python, R, Stata.
- **Data visualization:** Tableau; Python: matplotlib, plotnine, seaborn; R: ggnplot, ggplot2.
- **Python libraries:**
General: Jupyter Notebook, scikit-learn, pandas, NumPy, fastAPI.
Deep Learning: Tensorflow, keras | **AWS:** boto3 | **SQL:** MySQL, sqlite3, SQLAlchemy
Natural Language Processing: SpaCy, NLTK | **GIS:** geopandas, GeoAlchemy
Web-scraping: requests, BeautifulSoup, selenium.
- **R libraries:** tidyverse, stargazer, raster, caret, sp, sf.
- **Project management & collaboration:** Agile, Jira, Lattice, Github, Slack.
- **Other:** Familiarity with \LaTeX , Beamer presentations, Linux command line, ArcGIS, PostgreSQL.