

BaoKhoa Tran

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Education

University of Connecticut, Storrs, CT

Master of Science in Quantitative Economics / Econometrics / Applied Analytics, December 2023 (expected)

Cumulative GPA: 3.75

University of Connecticut, Storrs, CT

Bachelor of Science in Economics, May 2022

Cumulative GPA: 3.55

Proficiencies

Programming languages and Data analysis programs: Python, SQL, R, SAS, MATLAB, STATA, Excel

Professional/Research Experience

University of Connecticut Department of Economics, Storrs, CT

Graduate Research Assistant, Jan 2023 – present

Academic Project: Gender Pay Gap in Academia

- Objective: Performing econometric and statistical modeling on compensation data and visualizing analytical results to provide quantitative insights of gender pay gap among faculty members using STATA/Python
- Utilizing mathematical algorithms, such as: Oaxaca decomposition and OLS regression, to examine the discrepancies in compensation between men and women members of faculty
- Documenting and archiving programs to ensure code quality and data integrity for future usages. Working independently and regularly discussing with project lead about both technical and non-technical events occurred in the progress.

Academic Project: Anthem Protests and NFL Attendance

- Objective: Developing analytical model the impact of the anthem protests during the 2016 NFL season on NFL attendance
- Architecting multiple data collection/visualization workflow using Python and STATA to refine the accuracy of the effects of different types of protest on attendance at the game stadiums.
- Utilizing econometric modeling, such as: Event History model, Panel data and fixed effect, Tobit regression with STATA to demonstrate the robustness of the developed forecasting model.

Vietnam National Reinsurance Joint Stock Corporation (VINARE), Hanoi, Vietnam

Oracle Data Warehouse Developer (intern), July 2022 to August 2022

- Managed and analyzed big data using Oracle SQL in support the development of a data warehouse. Organized and created new tables by using data label and data dictionary to guarantee the accuracy of new data
- Programming a work log-in function using advanced SQL procedures, such as: Date-Time Manipulation, Calculating Running Totals, Common Table Expressions (CTEs), Recursive CTEs, Self Joins
- Extensively tested and debugged advanced SQL procedures and functions to ensure optimal performance and data accuracy; reported test results and provided regular feedback to management to support system improvements

University of Connecticut Department of Civil and Environmental Engineering, Storrs, CT

Research Assistant, September 2021 – December 2021

Academic Project: Forecasting economic benefit of Photovoltaics (PV)

- Objective: Energy load forecasting for contingency expenses, regarding solar energy and weather conditions for Eversource
- Developed predictive models for photovoltaic (PV) forecast with machine learning ensembles, such as: Random Forest and Boosting, to accurately predict solar energy generation for optimal contingency cost.
- Visualized input weather data and forecasted expenses using MATLAB to show the robustness of the developed forecast model.
- Outcome: The forecast accuracy up to 99% in comparison with data reported from the Department of Energy.