

# HENRY TRAN

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Analytical and detail-oriented recent UW grad in Economics minoring in Data Science with expertise in data analytics, and process optimization. Experienced in delivering actionable insights through SQL, Python, and data visualization.

## SKILLS

Data Analysis (Excel, SQL, R, Python)	Causal Inference	Statistical Modeling
Data Storytelling	Regression Analysis & Forecasting	Report Writing and Presentations
Data Visualization	Data Cleaning	Cross-Functional Collaboration

## EDUCATION

**Economics (B.S.)**, Minor in Data Science  
University of Washington

June 2024  
Seattle, WA

- Relevant Coursework: Data Science Computing, Econometrics & Data Science, Data Science for Strategic Pricing, Advanced Macroeconomics, Calculus (I-IV), Differential Equations, Linear Algebra, Probability I, Computer Programming I, Statistics I.
- Dean's List.

## STATISTICS AND CODING PROJECTS

### Wage Inflation and Trend Analysis

Spring 2024

- Scraped, cleaned, and pivoted a large dataset utilizing **pandas** and merging by year across multiple datasets.
- Utilized correlation matrices and VIF to rule out variables with high collinearity and give insight into our results.
- Ran **OLS** on Wage Inflation to determine statistically significant variables and draw correlational conclusions.
- Utilized **seaborn** and **matplotlib** to visualize trends from our final dataset like job sectors and change in GDP.

### Pricing Optimization

Fall 2023

- Utilized double ML in **R** to estimate own and cross-price elasticities across multiple products using panel data.
- Segmented stores and elasticities using tree-based algorithms.

### Forecasting CO2 Emissions

Spring 2023

- Used CV and MSE to choose applicable ML method in **R** to predict CO2 emissions using BP dataset.
- Utilized **ggplot2**, **XGBoost**, and **glmnet** on chosen variables to conduct different ML methods for CO2 forecasting.
- Finalized research paper about the path towards carbon neutrality using LASSO and other ML algorithms.

### Racial Disparities in High School Graduation Rates from King County

Spring 2023

- Collected and cleaned graduation rate data by race for Washington State to prepare for regression analysis.
- Generated dummy variables by race, yielding significant coefficients for non-white groups after running OLS.
- Leveraged **ggplot2** to create visualizations highlighting racial disparities in graduation rates in King County.
- Co-authored a group paper on racial disparities in King County high school students, focusing on regression analysis and data visualization.

## EXPERIENCE

**Economics Intern**  
Gymki

June 2023 - September 2023  
Seattle, WA

- Conducted in-depth research on US gymgoers across two key demographics to inform strategic decisions for TAM.
- Utilized **R** and **Excel** to build models to forecast industry revenue and future gym expansion using CAGR.
- Delivered persuasive presentations to key stakeholders regarding the TAM for consumers and businesses.

## SKILLS

**Technical skills:** Excel, R (XGBoost, randomForest, dplyr), Python (numpy, scipy, pandas, seaborn, statsmodels), SQL