ty of California, Los Angeles (UCLA) conomics :: Causal Inference, Consumer Price Sens nal Graduate Training: Statistics, S nference, Experiment Design, Machine I tatistical Networks, High Dimensional S Statistics (3.97 Stats GPA) te Math: Probability Modeling, Measur	August 2013–June 2019 sitivity, ML and Econometrics O Courses Spring 2016–Fall 2017 Learning and Deep Learning, Time Statistics, Computational Methods, re Theory, and Asymptotic Analysis
ty of California, San Diego (UCSD) bability and Statistics, magna cum l Economics (Math-Econ GPA 3.96) ter Science Courses: C, Java and OOF ca Courses: Data Structures (Python), J s Web Data	<i>aude</i> Fall 2010–Summer 2012 P, Data Structures (Java), Assembly Algorithms (Python), Using Python
nming: R (tidyverse, tidymodels, etc.), I arModels, Matplotlib, Scikit-learn, Scip SQL, Snowflake), Dagster, RShiny, Git, ing Systems: Mac, Linux (Ubuntu, Pop nal: Website Design as hobby.	Python (Pandas, Numpy, StatsMod- y, Seaborn, Flask, dbt, etc.), SQL Bash/Shell, Looker, IAT <sub>E</sub> X, Excel. b!_OS), Windows.
<ul> <li>t, San Francisco</li> <li>conomist, Causal Inference and Pricing addition to the "Economist" duties below – Serve as the team lead of our Pricing and Causal Inference PhD interns.</li> <li>Coordinate research across my team as teams to solve key business problems a</li> <li>st, Causal Inference and Pricing</li> <li>e machine learning, causal inference, and solve key business problems. Build pipe these tools using my expertise in Python prove Flexport's products and business pro- sauring experimental outcomes, and guide berimental results.</li> <li>bototype novel solutions to business pro- siness stakeholders to understand busine available data, (3) performing explorate rating on econometric and ML models to liver key takeaways from my models and rough automated dashboards, presentation ork directly with interdisciplinary teams of d other business stakeholders to deliver oblems.</li> <li>lead an internal reading group on reve</li> </ul>	May 2021-Present Mar 2023–Present w, g and Causal Inference Economists and with non-economist-data-science and meet key business goals. May 2021–Mar 2023 ceconometric tools in R and Python elines to automatically deliver data and SQL. processes by designing experiments, ding business decisions based on the blems by (1) working closely with ess needs, (2) gathering information tory analysis on the data, and (4) o solve these problems. and experiments to business leaders ons, and research reports. of applied scientists, data scientists, data-science solutions to business mue management, causal inference,
	ty of California, Los Angeles (UCLA) conomics :: Causal Inference, Consumer Price Sen. nal Graduate Training: Statistics, 9 nference, Experiment Design, Machine I tatistical Networks, High Dimensional 9 Statistics (3.97 Stats GPA) te Math: Probability Modeling, Measur ty of California, San Diego (UCSD) obability and Statistics, magna cum b Economics (Math-Econ GPA 3.96) ter Science Courses: C, Java and OOI ra Courses: Data Structures (Python), . s Web Data nming: R (tidyverse, tidymodels, etc.), J arModels, Matplotlib, Scikit-learn, Scip SQL, Snowflake), Dagster, RShiny, Git, ing Systems: Mac, Linux (Ubuntu, Pop nal: Website Design as hobby. et, San Francisco conomist, Causal Inference and Pricing addition to the "Economist" duties belo – Serve as the team lead of our Pricing and Causal Inference PhD interns. – Coordinate research across my team a teams to solve key business problems f st, Causal Inference and Pricing e machine learning, causal inference, and solve key business problems. Build pipp these tools using my expertise in Pythor prove Flexport's products and business p asuring experimental outcomes, and guid perimental results. ototype novel solutions to business pro siness stakeholders to understand busines available data, (3) performing explorati- rating on econometric and ML models to liver key takeaways from my models at ough automated dashboards, presentatio ork directly with interdisciplinary teams d other business stakeholders to deliver oblems. -lead an internal reading group on reve d econometrics.

Senior Economist, Bank of Canada, Ottawa

July 2019-May 2021

- Built machine-learning and time-series models to automate bank-note-demand (-volume) forecasts and report bank-note-demand volatility (risk) using my expertise in R.
- Built and estimated sophisticated econometric and statistical models in R and Python to measure Canadian demand elasticities (or price sensitivities) to payment methods at the point of sale.
- Helped design national surveys and analyzed the results of discrete choice experiments from those surveys to measure the price elasticities (economic demand) of existing and novel monetary products.
- Built and estimated panel-data models from financial diaries of payment card choice at the point of sale in R to inform policy on interchange fees and measure the competitiveness of the Canadian market for payment at the point of sale.
- Wrote clear, concise research reports on my methodology and results to inform the scientific research community and for publication in leading academic journals.
- Wrote non-technical reports and presented key insights from my research to Bank leaders. Through this work, my research informed Bank of Canada's strategy around the release of new Bank products.

PhD Research, UCLA, Los Angeles

Sep 2015–June 2019

- Built and estimated novel econometric models to measure consumer price sensitivities (and economic demand) in an online marketplace with product search across an A/B test (experiment) of different product listing algorithms.
- Worked directly with world-class professors to build and estimate econometric, game theory, and machine learning models that measured market demand (price sensitivity) for health insurance in R.
- Developed and used sophisticated econometric, machine learning, and statistical tools to solve the following problems:
  - Estimating the upper and lower bound of bidder valuations in an English auction.
  - Estimating the price effects of airline mergers.
  - Estimating the effect of subsidies on the demand for insurance in California's healthcare exchanges.
  - Estimating the consumer welfare consequences of search-list order for an online travel agency.
  - Using the lasso for inference on the most-treatable subpopulations in a randomized experiment.
  - Bootstrap estimates for confidence bounds of conditional CDFs and nonadditively separable functions.

Research Intern, Microsoft (MSR), Redmond, WA June 2016–Sep 2016

- Sharpened skills in database management using SQL-like language and data analysis using R and Python while working with large-scale search data.
- Applied knowledge of web scraping, string parsing, and big-data queries to build a data pipeline and estimate econometric models.
- Used econometric models' output to gain deep insights into high impact research questions.

Teaching Assistant, UCLA, Los Angeles

Fall 2014–June 2019

• Led weekly classroom discussion sections of 10–30 undergraduates students for courses including Econometrics, Game Theory, Microeconomics, Macroeconomics, and Statistics for Economists.