

# BENJAMIN LEIVA SILVA

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## EDUCATION

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**Department of Computer Science & Harris School of Public Policy, University of Chicago** Chicago, IL  
*Master of Science in Computational Analysis and Public Policy* 2023 - 2024

**Instituto de Economía, Pontificia Universidad Católica de Chile** Santiago, Chile  
*Master of Science in Economics (two votes of distinction, [distinguished thesis](#))* 2017 - 2018

- Teaching Assistant: Macroeconomics, Econometrics

**Facultad de Economía y Negocios, Universidad de Chile** Santiago, Chile  
*Bachelor of Science in Economics (distinction, merit scholarship)* 2012 - 2016

- Teaching Assistant: Economics, Microeconomics, Political Economy, Macroeconomics

## WORK EXPERIENCE

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**GENERATIVE AI IN EDUCATION HUB, STANFORD UNIVERSITY** Stanford, CA  
*Senior Research Data Analyst* Sept 2024-present

**MIIE LAB, UNIVERSITY OF CHICAGO** Chicago, IL  
*Machine Learning Data Scientist Intern* June 2023 - May 2024

- Built **Python data pipeline** from text data to identify and group topics/values in textbooks using embeddings and OpenAI's API

**CHILEAN ANTITRUST AUTHORITY** Santiago, Chile  
*Economist/Data Scientist, Market Studies Division* Feb 2019 - Sep 2022

- Computed **data-driven analysis and visualizations** for **policy recommendations** in [education](#), [healthcare](#), [energy](#), [procurement](#), and [social safety nets](#) markets along with cross-functional team; with estimated **annual welfare gains of US\$521M-1,504M**
- Built end-to-end **data pipelines** from large, unstructured datasets, and performed statistical analyses in **Python, R, SQL, Stata**
- Designed, run, and analyzed multiple causal **experimental designs, A/B tests, and user-centered surveys**
- Led private and public **stakeholder meetings** and communicated insights and results to **technical and non-technical audiences**

**CHILEAN CENTRAL BANK** Santiago, Chile  
*Intern, Department of Analysis and Forecasts* Jan 2015 - March 2015

- Programmed first stage of an **inflation prediction model in R**

## CODING PROJECTS

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### FULL STACK WEB APPLICATIONS

*Genomics Annotation Service, Cloud Computing* ([Link to code](#))

- Developed a **Python, Flask**-based frontend and cloud-based backend in **AWS** for uploading, storing, retrieving genomics results
- Route Rangers: A transit planning tool for citizens and policymakers* ([Link to code](#))
- Created ETL data pipeline in **Python** for ingesting US Census data, as well as a route planning tool in **JavaScript**.

### GENERATIVE AI, LLM, NLP

*Dirty Comments and Clean Plates: Using real and fake restaurant reviews to predict failed health inspections* ([Link to code](#))

- Simulated user reviews using **GPT-3.5** and **GPT-4** models and zero- and few-shot prompting through **OpenAI's API** in **Python**

### MACHINE LEARNING, DEEP LEARNING, COMPUTER VISION

*Predicting Pneumonia from X-Ray Images* ([Link to code](#))

- Built Convolutional Neural Network and Logistic Regression models in **Python** using **TensorFlow, Scikit-Learn, and Pandas**

### DATA ENGINEERING, DATA VISUALIZATION, DATA STORYTELLING

*COVID-19 Online: How people interacted with government websites during the pandemic* ([Link to code](#))

- Examined trends in Gov website traffic over the course of the pandemic, using *analytics.usa.gov* and NYTimes data in **Python**