Hans Elliott

Data Science / Economics

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Website: hans-elliott99.github.io
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Trained In	Data Science, Econometrics/Causal Inference, Statistics, Machine Learning, Economic Theory
Experienced With	Python, R, Bash/Linux, Git, C++, ArcGIS, G-suite, Microsoft Office, Stata
Knowledge Of	SQL, GCP, Docker, Spark, Spanish

EDUCATION

Master of Science in Economics, *University of Oregon*   Sep 2021 — Jun 2022
- 4.15/4.0 GPA. Advanced econometrics, micro, macro, machine learning, & data science.
- Personal focus on data science and econometrics.

Bachelor of Science in Economics, *Robert D. Clark Honors College at University of Oregon*   2017 — 2021
- Graduated Summa Cum Laude (4.05/4.0 GPA) and with economics departmental honors.
- Undergraduate economics thesis using R for data analysis and visualization.

WORK EXPERIENCE

RESEARCH ASSISTANT / DATA SPECIALIST   Oct 2022 — Jan 2023
Prof. John Chalmers, University of Oregon.   *Eugene, OR*
- Using Linux and Bash to manage large amounts of household consumption and financial data on a HPC cluster.
- Using Python, R, and shell scripting to create programs that automate data ETL and visualization and perform web-scraping for obtaining additional data.
- Developing original ideas for statistical analysis and executing those of senior researchers with Python and R.
- Using Git to manage code development across local and remote machines, and in collaboration with other researchers.

PROSPECT RESEARCH ANALYST   Jun 2021 — Sep 2021
University of Oregon.   *Eugene, OR*
- Researched and evaluated potential donors for the UO fundraising office.
- Updated databases and written reports using Microsoft Office suite.

LAB AIDE   Jun 2018 — Jun 2021
University of Oregon Bowermab Lab.   *Eugene, OR*
- Learned how a research lab operates and is maintained.
- Assisted in the production of lab materials for use by researchers, oversaw sanitation and removal of waste.
- Ordered supplies based on demand from the lab, organized and maintained lab resources.

PEER MENTOR   Jun 2018 — Nov 2018
Pathway Oregon (University of Oregon).   *Eugene, OR*
- Gained experience as a teacher and mentor while overseeing incoming UO freshmen in the Pathway scholarship program.
- Helped mentees understand university and program requirements and meet deadlines.

RECENT PROJECTS

- *Predicting the Punctuality of Zürich Transit.* Compiled a dataset and trained regression and classification models to predict the punctuality of tram rides in the Zürich public transit network. Available online.
- *Toxic Plant Classification.* Web-scraped together an original dataset consisting of common North American rash plants, available online. Used TensorFlow to fine-tune a ConvNet to classify plant images into toxic or non-toxic (demo).
- *Neural Network Fundamentals.* Created an R package for regression and classification deep learning tasks using core-R. Package and Shiny demo available online.
- *Undergraduate Thesis.* Original research project which utilizes labor market and education data to analyze how student decisions about course enrollment are tied to labor market trends.

ACTIVITIES

- I am an avid soccer fan but I let machine learning fill out my World Cup bracket.
- I enjoy learning about and building neural networks. I am working on implementing a neural net with C++ and replicating important papers (see here and here) with PyTorch.
- I participate in data science competitions on Kaggle.
- I have been an assistant soccer coach at Pelada Football Academy since 2015.