

# Eric Leonen

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## Research Interests

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Causal Inference Econometrics, Macroeconomics Monetary Policy, LLM Reasoning, Economics of AI

## Education

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**University of Washington**, Seattle, WA Sep. 2023 – Exp. June 2027  
B.S. Applied and Computational Mathematical Sciences (Data Science and Statistics)  
GPA: 3.99/4.0

*Relevant Coursework:* Causal Inference, Machine Learning, Database Systems, Nonlinear Optimization, Nonparametric Statistics, Continuous Modeling, Macroeconomics, Financial Economics

## Research Experience

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### Semantic Search over 9 Million Mathematical Theorems

*UW Math AI Lab*, Seattle, WA Sep. 2025 – Present

- Built a semantic search engine over 9.2 million mathematical theorems using a vector embedding pipeline and AWS infrastructure
- Accepted to the 2026 ICLR Workshop on LLM Reasoning

### The Stability of Okun's Law Across Time and Space

*University of Washington*, Seattle, WA Aug. 2025

- Examined how Okun's Law changed in the U.S. across recession periods and states using 2005–2025 data with R
- Found no evidence of coefficient heterogeneity across recession periods, and only weak evidence across states

### So Long Solow? An Empirical Study of the Efficacy of Solow Growth Models

*University of Washington*, Seattle, WA Dec. 2025

- Analyzed how well the Mankiw-Romer-Weil Solow growth model captures economic dynamics of the U.S., Japan, and Germany from 1950–2023 with Python
- Found that a SINDy-driven model outperformed those with constant or time-varying exogenous parameters

### Statistics Directed Reading Program

*Department of Statistics, University of Washington*, Seattle, WA Sep. – Dec. 2025

- Studied econometric causal estimators under faculty mentorship, with emphasis on identification strategies and their theoretical foundations
- Delivered a 15-minute presentation on the instrumental variables estimator applied to a job training program efficacy study

## Honors & Awards

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### Dean's List

*University of Washington*

Sep. 2023 – Present  
Every quarter

**Abraham Goo Endowed Scholarship**  
*ACMS, University of Washington*

Oct. 2025  
Inaugural recipient

## Teaching Experience

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**Lead Mathematics Tutor**  
*UW Math Study Center, Seattle, WA*  
Precalculus, Calculus I–III

May 2024 – Present

## Skills

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**Programming:** Python, R, SQL, MATLAB, Java, TypeScript

**Tools:** AWS, Docker, Tableau, Linux, Excel, GitHub