

## EDUCATION

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### University of California, Davis (UC Davis)

Ph.D. in Economics

M.S. in Economics (*Best First-Year Student Award*)

Research Areas: Macroeconomics, Labor, Time Series Analysis, Transition Policies

Davis, CA

May 2026 (expected)

Sep 2022

### Reed College

B.A. in Mathematics and Economics (*Academic Commendation for Excellence*)

Portland, OR

May 2021

### Carnegie Mellon University

Public Policy and International Affairs (PPIA) Fellow (*Data Analytics Track*)

Pittsburgh, PA

Aug 2019

## RELEVANT COURSES AND TECHNICAL SKILLS

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**Courses:** Advanced Macroeconomics, International Macroeconomics, Time Series Analysis, Econometrics, Spatial Data Analysis, Statistical Learning, Linear Algebra, Real Analysis, Data Science, Probability, Computer Science

**Programming:** Python, R, MATLAB, Stata, SQL

**Tools & Platforms:** Jupyter, RStudio, Git/GitHub, UNIX/Linux, Microsoft Office, LaTeX, Spark, GIS tools

## RELEVANT EXPERIENCES

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### International Monetary Fund (IMF)

PhD Fund Intern – FADCP

Washington, DC

Summer 2025

- Studied adaptation assumptions in climate–economy losses and built projection framework for future impacts.
- Developed global grid-level geo-spatial datasets to quantify macroeconomic costs of extreme weather events.

### University of California, Davis

Graduate Researcher

Davis, CA

Sep 2021 – Present

- **Resolving Coordination Frictions in Green Labor Transitions** ([Paper](#)): Showed that dual-targeted subsidies to firms and workers, rather than one-sided support, reduce unemployment by up to 18% and fiscal costs by 24%.
- **Bridging the Manufacturing Gap**: Modeled how search frictions and endogenous skill choice depress manufacturing labor supply, showing that targeted subsidies can raise sectoral employment by 3% at modest fiscal cost.
- **Emissions Forecasting Under Uncertainty**: Developed dynamic factor models in R and Python to produce state-level forecasts of GHG emissions under uncertainty from high-dimensional climate and economic data.
- **A Task-Based Model for Targeted Green Subsidies** ([Paper](#)): Calibrated a structural model showing subsidies work best when green tasks align with traditional productivity; welfare gains occur only if externalities exceed  $\approx 4.3\%$  consumption-equivalent, with lump-sum or capital-income taxes least distortionary relative to labor taxes.

### RStudio PBC

Data Science Educator

Remote

Sept 2021 - December 2022

- Built interactive R tutorials and projects for RStudio Academy to train professionals in data science.

Software Developer (Intern)

May 2021 - August 2021

- Developed an R package ([shinymodels](#)) for interactive model exploration to facilitate model deployment.

## PUBLICATIONS

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Adhikari, S., Geromichalos, A., Gursoy, A., & Kospentaris, I. (2025). **How Much Work Experience Do You Need to Get Your First Job?** *Review of Economic Dynamics*, 58, Article 101301. [Paper](#) | [Appendix](#) | [Slides](#)

- Reveals that firm bias against inexperienced workers raises unemployment by up to 10% and cuts welfare by 0.6%.
- Finds that targeted hiring subsidies boost entrant job-finding rates by 75–120% and raise welfare up to 1.5%.

## TEACHING EXPERIENCES

### University of California, Davis

Davis, CA

*Graduate Teaching Assistant:* Economic and Financial Forecasting, Econometrics, Game Theory, Intermediate Macroeconomics, Intermediate Microeconomics, Principles of Microeconomics, Principles of Macroeconomics

### Reed College

Portland, OR

*Undergraduate Teaching Assistant:* International Monetary System, International Trade, Behavioral Finance, Econometrics, Data Science, Probability, Math Statistics, Calculus, Analysis, Linear Algebra, Vector Calculus

## LEADERSHIPS AND INVOLVEMENTS

### California Council on Science and Technology (CCST)

Sacramento, CA

*Translator, 2025 CCST Science Translators Showcase*

Jan 2025 – Present

- Presented at the California State Capitol to legislative staffers during CCST's Science & Technology Week.
- Completed science communication training focused on translating technical research into policy-relevant insights.

### Girls Who Invest Scholar

New York, NY

*Scholar/Alumni*

Ongoing

- Completed industry-recognized modules in advanced financial modeling and portfolio management.
- Actively engage in asset management panels and conferences expanding expertise in investment strategies.

### PERIOD.

Remote

*Data and International Policy Analysis Intern*

May 2020 - August 2020

- Applied machine learning to classify global menstrual health policies and support policy recommendations.

### Reed College Finance and Investment Club

Portland, OR

*President*

December 2018 - December 2019

- Managed a \$75K investment portfolio, achieving a 15% increase during tenure.

## CERTIFICATIONS AND AFFILIATIONS

Climate Change and AI (CCAI) Summer School

Montreal, 2024

Journal of International Economics (JIE) Summer School

Crete, 2023

Phi Beta Kappa Honor Society

Reed College, 2021

Commendation for Academic Achievement

Reed College, 2017-2021

Foundations of Investment Management

Wharton Online, Jan 2020

Accounting, Analyzing Financial Reports, and Excel Training

Wall Street Prep, Oct 2019

Girls Who Invest Program

Girls Who Invest, Oct 2019

The Investment Foundations Program

CFA Institute, Oct 2019

CFA Institute Research Challenge

CFA Institute, March 2019

## SCHOLARSHIPS, GRANTS, HONORS AND ACHIEVEMENTS

Department Research/Travel Award (\$8,000)

UC Davis 2021-25

Best First-Year Student Award (\$500)

UC Davis 2021

Carl Burgdorfer CFA Scholarship (\$2,000)

CFA Society of Portland 2021

Evan Rose Research Fund (\$6,500)

2021

Gerald M. Meier Award for Distinction in Economics (\$500)

2021

Public Policy and International Affairs (PPIA) Fellowship (\$3,000)

Carnegie Mellon University 2020

Summer Internship Award (\$4,000)

2020

Collaborative Research Grant (\$2,488)

2020

Economics Summer Research Award (\$4,900)

Reed College 2019

Career Advancement Fund (\$1,265)

2019-2020

Student Opportunity Subsidy (SOS) Grant (\$700)

2019

Davis Projects for Peace Award (\$10,000)

2018