

Ethan Goode

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Work Experience

Data Analyst

07/2023 - Present

Allegheny County - Department of Human Services

Pittsburgh, PA

- Analyzed variation in client outcomes across different community treatment teams (CTT). Implemented a dynamic panel estimator, conditioning on initial client risk, to estimate the relationship between client outcomes and provider assignment.
- Led a project mapping familial and extra-familial relationships in the DHS data warehouse, creating a rule-based algorithm to enhance client analysis and feature engineering.
- Collaborated on the design and implementation of a predictive risk model to identify children likely eligible for SSI benefits, engineering youth-specific features and calibrating the model.
- Developed software linking DHS data to automated PDF outputs, enabling efficient auto-filling of client applications for public benefits and provider programs.

Research Associate

01/2021 - 06/2023

Federal Reserve Bank of San Francisco

San Francisco, CA

- Coding lead on co-authored research project, designing replicable code in R to project forward estimates of climate damages using a dynamic panel estimator.
- Simulated a dynamic, global model of crop-level agricultural production, consumption, and trade calibrated using granular spatial data on climate, soil, and water resources in MATLAB.
- Designed and automated a method for scraping county-level annual temperature projections across an ensemble of models and a variety of climate scenarios from the KNMI climate explorer using RSelenium.

Research Intern

06/2020 - 08/2020

Federal Reserve Bank of Dallas

Dallas, TX

- Implemented cutting-edge, structural trade models in MATLAB with the ability to characterize the effect of tariff policy on multi-sector economies with sectoral linkages.
- Worked alongside a research economist to develop topical scenarios and analysis under a Ricardian framework of trade.

Publications and Projects

Projecting The Impacts of Rising Temperatures: The Role of Macroeconomic Dynamics

with Stephie Fried and Gregory Casey; IMF Economic Review [🔗](#); [view on Github](#) [🔗](#)

- Estimated the effect of temperature change on the growth rate of total factor productivity in order to study the significance of permanent and temporary damages to GDP growth.

Building Competent Models: Ensembles for Unlearning Single Feature Artifacts

[view on Github](#) [🔗](#)

- Synthesized the "competency problems" framework with multi-capacity ensembles (MCEs) to build an automated pipeline that identifies and unlearns single-feature artifacts, validated on the SNLI dataset.

Education

University of Houston

Fall 2020

B.S. Economics, Mathematics minor (3.89 GPA)

Houston, TX

- Notable Classes: Econometrics I (graduate-level), Real Analysis, Probability, Stochastic Processes

University of Texas at Austin

Summer 2025

M.S. Data Science (3.86 GPA)

Austin, TX

- Notable Classes: Machine Learning, Deep Learning, Natural Language Processing

Tools

- Programming Languages - Python, R, MATLAB, Stata
- Database tools - Oracle SQL, MySQL
- Typesetting - L^AT_EX