

STEPHEN LAFFEY

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EDUCATION

Tilburg University | Tilburg, Netherlands 2026
MSc Econometrics and Mathematical Economics

Colorado State University | Fort Collins, Colorado 2024
BA Economics, cum laude | Minor in Mathematics | GPA: 3.92/4.00

QUANTITATIVE EXPERIENCE

Quantitative Research Lead | CSU Department of Economics 2023–2024

- Co-led sales-tax forecasting for Fort Collins and Loveland using multivariate cointegration models and macroeconomic indicators.
- Produced forecasts that outperformed internal municipal projections on available comparison data; presented findings to municipal and county representatives.

Special Projects Coordinator | CSU Lory Student Center 2022–2024

- Built ARIMA forecasts of enrollment and student fee revenue using institutional and local macroeconomic variables; models supported university financial planning.
- Led analysis of a fee satisfaction survey distributed to several thousand students, informing allocation decisions for approximately \$65M in student fees.

Teaching Assistant | Economic Forecasting, CSU Spring 2024

- Supported instruction and assessment in time-series econometrics, including multivariate cointegration.

RESEARCH AND SELECTED PROJECTS

Matching Theory | MSc Thesis, Tilburg University 2025–2026

Limited Farsightedness and Pairwise Stability in Two-Sided Matching Problems

- Developed a stability framework for two-sided matching with heterogeneous planning horizons, supervised by Prof. P. Jean-Jacques Herings.
- Proved structural results, classified two-by-two markets, and constructed counterexamples showing how foresight and strategic misreporting affect matching outcomes.

Stochastic Optimal Stopping | Tilburg Coursework 2025

- Analyzed a dynamic stopping problem using Bellman equations, MATLAB value-function iteration, and contraction-mapping methods.

Elliptic Curves and Cryptography | CSU Poster Fair 2024

- Awarded first prize for a poster examining elliptic-curve torsion points and the Nagell-Lutz theorem.

LEADERSHIP

Chair, University Facility Fee Advisory Board | CSU 2022–2024

- Chaired a student advisory board overseeing allocation of \$18M+ in annual fee revenue.

Budget Model Redesign Technical Committee | CSU 2023–2024

- Sole student appointee to an 18-month committee developing a budget model for \$1B+ in university revenue.

TECHNICAL SKILLS

Computing: R, MATLAB, Stata, Python, Sage | **Technical writing:** LaTeX

Methods: Time-series forecasting, ARIMA, cointegration, dynamic programming, game theory