

Rachel Pompa

EDUCATION

PhD in Economics

University of Wyoming at Laramie

May 2024

3.923 GPA

MS in Economics

University of Wyoming at Laramie

December 2021

3.923 GPA

BS in Mathematics, *summa cum laude*

University of Minnesota at Duluth

May 2018

4.0 GPA

BA in Economics, *summa cum laude*

University of Minnesota at Duluth

May 2018

4.0 GPA

TEACHING INTERESTS

Microeconomics, macroeconomics, behavioral economics, experimental economics, and environmental economics.

TEACHING

Economics Lecturer

2022-Present

Economics Department, University of Wyoming

- Professor of record for **ECON 3020** Intermediate Microeconomics Fall 2022
- Professor of record for **ECON 3010** Intermediate Macroeconomics Spring 2022 (21 students)
- Develop course material including: in-class activities, homework, quizzes, exams, lecture slides, video lectures, and worksheets
- Engage with students in the classroom and during office hours

Teaching Assistant

2019- 2021

Economics Department, University of Wyoming

- Teaching assistant for the following courses:
 - **ECON 1010** Principles of Macroeconomics Fall 2019 (127 students)
 - **ECON 1000** Global Economic Issues Fall 2019 (34 students)
 - **ECON 1010** Principles of Macroeconomics Spring 2020 (103 students)
 - **ECON 3020** Intermediate Microeconomics Spring 2021 (39 students)
 - **ECON 1010** Principles of Macroeconomics Spring 2021 (61 students)
- Prepared and taught several classes and discussion sections for every class throughout the semester
- Engaged with students during office hours
- Graded exams, excel assignments, and term papers

EconHelp

2019-2020

Economics Department, University of Wyoming

- Tutored undergraduate economics students in 1xxx-4xxx courses
- Taught small groups of students' economic concepts
- Held one-on-one tutoring with students

RESEARCH EXPERIENCE

Research Assistant

2020-2021

Economics Department, University of Wyoming

- Assisted Dr. H. Jo Albers with several ungulate research projects using popup conservation techniques.
- Gathered and cleaned data to be used in simulation models using Excel, Stata, Matlab, and R.
- Prepared data analysis reports and literature reviews for several ongoing ungulate research projects.

Center for Business and Economic Analysis Research Assistant

2021-2022

College of Business, University of Wyoming

- Assisted Dr. Christelle Khalaf with the CORE-CM Project funded by the DOE grant under Davin Bagdonas.
- Conducted a literature review and collected data on Rare Earth Elements (REEs) and Critical Minerals (CMs) in the Greater Green River Basin (GGRB) and Wind River Basin (WRB) areas in Wyoming and Colorado.
- Used ArcGIS Pro to create a geospatial database of REEs, CMs, industries, employment, and existing infrastructure to be used by interdisciplinary teams on the project and for an economic impact analysis (IMPLAN).
- Submitted project reports and research summaries to project lead Davin Bagdonas.

Pathways Intern in Economics

Summer 2021 & 2022

USDA Economic Research Service, Kansas City, MO

- Query the USDA National Agricultural Statistics Service Information (NASS) database to create input-output matrices to be used in agricultural CGE and partial equilibrium models.
- Collect open-source data to create social accounting matrices for the U.S. disaggregated by state and income quintiles consistent with the Global Trade Analysis Project (GTAP) database.
- Conducted a literature review to create and update figures on the ERS Climate Change Webpage.
- Used GAMS for General Equilibrium Modeling and attended Thomas Rutherford's CGE forum
- Attended academic conferences GAMS and the Agricultural & Applied Economics Association (AAEA).

PUBLICATIONS

1. Berry, K., Horan, R. D., Finnoff, D., **Pompa, R.**, & Daszak, P. (2022). Investing to Both Prevent and Prepare for COVID-XX. *EcoHealth*, 1-10.

HONORS AND AWARDS

- Shelby Gerking Graduate Award 2022
- Academic Excellence in the BA of Economics Award 2018
- LSBE Honors Scholarship 2018
- Joseph M. Thell Family Scholarship 2018
- Omicron Delta Epsilon
- Pi Mu Epsilon
- Phi Theta Kappa

GRANTS

Funded projects as CoPI

How do combinations of nudges affect consumer sustainable behavior?

Bugas Endowment, University of Wyoming

PI: Thunström, L., Co-PIs: van 't Veld, K., and **Pompa, R.**

\$10,000

The effectiveness of default nudges in encouraging healthier beverage choices

2022 Faculty Summer Research Grants, University of Wyoming

PI: Thunström, L., Co-PIs: van 't Veld, K., and **Pompa, R.**

\$10,000

RELEVANT COURSEWORK

- ECON 5020 & 5120 Advanced Microeconomic Analysis I & II
- ECON 5130 Dynamic Optimization
- ECON 5330 Advanced Mathematical Economics
- ECON 5350 & 5360 Advanced Econometric Theory I, II, & III
- ECON 5010 Advanced Macroeconomic Analysis
- STAT 3611 Introduction to Probability and Statistics
- MATH 4326 Linear Algebra
- MATH 5366 Enumerative Combinatorics
- STAT 5511 Regression Analysis
- Calculus I through IV
- GIST 5100 Foundations of GIST
- STAT 3612 Statistical Analysis

TECHNICAL SKILLS

- Programming languages and mathematical packages: Matlab, Mathematica, GAMS, C++
- Statistical languages: R, Stata, SAS
- Other: Canvas, ArcGIS Pro, Beamer, LaTeX, Tableau, Microsoft Office Suite

PROFESSIONAL MEMBERSHIPS

- Agricultural & Applied Economics Association (AAEA)
- Association of Environmental and Resource Economists (AERE)