Anthony (Tony) Underwood

Department of Economics

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POSITIONS

Associate Professor, Economics, Dickinson College, 2019-present

Chair, Economics, Dickinson College, 2019–2023

Contributing Faculty, Data Analytics, Dickinson College, 2020–

Contributing Faculty, Social Innovation and Entrepreneurship, Dickinson College, 2017–

Assistant Professor, Economics, Dickinson College, 2013–2019

Instructor, Economics, Colorado State University, 2010–2013

Graduate Teaching Assistant, Economics, Colorado State University, 2007-2010

EDUCATION

Ph.D., Economics, Colorado State University, 2013.

Dissertation: "Household CO₂ Emissions in the United States: The Role of Demographic Change"

M.A., Economics, Colorado State University, 2008.

B.A., Economics (Liberal Studies), Purdue University North Central, 2006.

RESEARCH INTERESTS

Environmental and natural resource economics

Energy economics

Urban economics

Public economics

Economic education

WORKING PAPERS

"OPT Reform & Reclassification: Impacts on student diversity in undergraduate economics education" with Eren Bilen and Emily Marshall.

"Natural Disasters and Household Debt: Evidence from U.S. Counties" with Emily Marshall, Daniel Byun '19, and Yanqing Zhao '19. [revise and resubmit]

"Housing Vacancy as a Social Determinant of Health in Pennsylvania" with David Sarcone and Margaret Winchester.

PEER-REVIEWED PUBLICATIONS

- 11. Requirements of the Undergraduate Economics Major: An Update and Comparison. (Forthcoming). Journal of Economic Education. [with Abigail Hyde '21 and Emily Marshall]
- 10. Teaching Reproducible Methods in Economics at Liberal Arts Colleges: A Survey. (2023). *Journal of Statistics and Data Science Education*. [with Aidan Sichel '23 and Emily Marshall]
- 9. Is economics STEM? Process of reclassification, requirements, and quantitative rigor. (2022). *Journal of Economic Education*, 53(3): 250-258. [with Emily Marshall]
- 8. Is economics STEM? Trends in the discipline from 1997 to 2018. (2020). *Journal of Economic Education*, 51(2): 167-174. [with Emily Marshall]
- 7. Work hours and CO₂ emissions: Evidence from U.S. households. (2019). Review of Political Economy, 30(1):42-59. [with Anders Fremstad and Mark Paul]
- 6. Writing in the discipline and reproducible methods: A process-oriented approach to teaching empirical undergraduate economics research. (2019). *Journal of Economic Education*, 50(1): 17-32. [with Emily Marshall]
- 5. Does sharing backfire? A decomposition of household and urban economies in CO₂ emissions (2018). Energy Policy, 123: 404-413. [with Anders Fremstad]
- 4. The environmental impact of sharing: household and urban economies in CO₂ emissions. (2018). *Ecological Economics*, 145: 137-147. [with Anders Fremstad and Sammy Zahran]
- 3. The carbon implications of declining household scale economies. (2015). *Ecological Economics*, 116, 182-190. [with Sammy Zahran]
- 2. Evidence that the Accuracy of Self-Reported Lead Emissions Data Improved: A Puzzle and Discussion. (2014). *Journal of Risk and Uncertainty*, 49(3): 235-257. [with Sammy Zahran, Terry Iverson, and Stephan Weiler]
- 1. Effect of Natural Disasters on Local Nonprofit Activity. (2014). *Growth and Change*, 45(4): 590–610. [with Anita Pena, Sammy Zahran, and Stephan Weiler]

PRESENTATIONS

- "Teaching Reproducible Methods in Economics at Liberal Arts Colleges: A Survey", presented at:
 - Conference on Teaching and Research in Economic Education (CTREE), Chicago, IL. June 2, 2022.
 - Southern Economic Association (SEA) Conference, Ft. Lauderdale, FL. November 20, 2022.
- "Requirements of the Undergraduate Economics Major: An Update and Comparison", presented at:
 - Conference on Teaching and Research in Economic Education (CTREE), Virtual. June 2, 2021.
 - Southern Economic Association (SEA) Conference, Houston, TX, November 22, 2021.
 - American Economic Association Annual Meeting, New Orleans, LA. January 6, 2023.

"Is Economics STEM? Process of Reclassification, Requirements, and Quantitative Rigor", presented at:

Southern Economic Association Conference, Ft. Lauderdale, FL, November 23, 2019.

"Is Economics STEM? Trends in the Discipline from 1997 to 2018", presented at:

- Conference on Teaching and Research in Economic Education (CTREE), St. Louis, MO, May 30, 2019. (presented by coauthor, Emily Marshall)
- Eastern Economic Association Conference, New York, NY. March 2, 2019.

"Natural Disasters and Household Debt: Evidence from U.S. Counties" presented by co-author Yanqing Zhao, at:

Eastern Economic Association Conference, New York, NY. March 1, 2019.

"Work Hours and CO₂ Emissions: Evidence from U.S. Households" presented by co-author Anders Fremstad, at:

Eastern Economic Association Conference, Boston, MA. March 4, 2018.

"Writing in the discipline and reproducible methods: A process-oriented approach to teaching empirical undergraduate economics research", presented at:

- ➤ Teach ECONference, Centre for Teaching and Learning Economics, University College London, Virtual, June 29, 2021.
- ➤ TIER Fall 2018 Faculty Development Workshop, Haverford College, Haverford, PA. November 3, 2018
- ➤ Teaching the WiD Course. Dickinson College. Carlisle, PA. August 21, 2018.
- Conference on Teaching and Research in Economic Education (CTREE), San Antonio, TX. May 30, 2018.
- National Economics Teaching Association Conference, Indianapolis, IN. Nov. 9, 2017.
- Professors Conference, Federal Reserve Bank of St. Louis, St. Louis, MO. Nov. 2, 2017.

"Household and Urban Economies in CO₂ Emissions: A Decomposition and Rebound Effect Analysis" presented at:

➤ Fall Seminar Series, Department of Economics, Colorado State University, Fort Collins, CO. September 8, 2017.

"Decomposing household and urban economies in CO2 emissions" presented at:

Eastern Economic Association Conference, New York, NY. February 25, 2017.

"The Climate Co-benefits of Obesity Reduction", presented at:

- American Economic Association Annual Meeting, San Francisco, CA. January 3, 2016.
- ➤ Canadian and United States Societies for Ecological Economics Joint Biennial Conference, Vancouver, BC, Canada. October 3, 2015.

"Global Energy Use and Emissions Trends: The Potential Impacts of Institutional Fossil-Fuel Divestment", invited presentation to Sustainable Investments Task Force, Dickinson College, August 27, 2013.

"The Impact of Demographic Change on Economies of Scale in Household Expenditures and CO₂ Emissions", presented at:

- Agricultural Economics and Economics Graduate Student Symposium, Colorado State University, February 15, 2013.
- Department of Economics Seminar Series, Colorado State University, November 9, 2012.
- Western States Graduate Student Workshop, University of Utah, October 20, 2012.

OTHER SCHOLARLY ACTIVITY

"What we know about classifying economics as STEM," EconEdNews. American Economic Association Committee on Economic Education. Fall 2023.

"Measuring Progress Towards a Green Economy," Samuel G Evans and Anthony Underwood, International Union for the Conservation of Nature (IUCN) Technical Report, January 2012.

PROFESSIONAL ACTIVITIES

Journal Peer-Review

Eastern Economic Journal
Ecological Economics
Environment, Development and Sustainability
Environmental Impact Assessment Review
Environmental Science and Policy
Climate Policy

Journal of Cleaner Production International Review of Economics Education Journal of Economic Education
Journal of Environmental Assessment Policy and
Management
Population and Environment
Nature Climate Change
Nature Energy

<u>Memberships</u>

American Economic Association (AEA)
Population-Environment Research Network (PERN)
United States Society for Ecological Economics (USSEE)

Professional Development

Pennsylvania Consortium on the Liberal Arts, Department Chair Workshop, Franklin & Marshall College, May 2019.

Clarke Forum Faculty Seminar on Sustainability, Spring 2019.

Writing with Numbers, Faculty Learning Community in Writing, 2018-2019.

Co-Chair, Clarke Forum Faculty Seminar on Big Data, Fall 2017.

Willoughby Institute for Teaching with Technology, Dickinson College, August 2016.

TIER (Teaching Integrity in Empirical Research) Workshop, Haverford College, April 2016.

Valley & Ridge, Faculty Study Group in Sustainability, Dickinson College, June 2015.

How Learning Works, Faculty Workshop, Dickinson College, June 2015.

Professional Service

Planning & Budget Committee, Dickinson College, 2021-2023 APSC Subcommittee on Writing & Quantitative Reasoning, Dickinson College, 2018-2023 Academic Standards Committee, Dickinson College, 2015-2017

HONORS & AWARDS

"Outstanding Graduate Student Teaching", Department of Economics, Colorado State University, 2011-2012 Academic Year.

College of Liberal Arts Excellence in Teaching Nominee, Colorado State University, 2012.

TEACHING EXPERIENCE

Associate Professor, Dickinson College (2019 – present)

ECON 496: Economic Demography and Sustainable Development (Spring 2020; Spring 2021; Spring 2022)

ECON 398: Advanced Econometrics (Spring 2020; Spring 2021; Spring 2022; Spring 2023)

ECON 298: Econometrics (Fall 2019; Fall 2021; Fall 2022; Spring 2023)

ECON 222: Environmental Economics (Fall 2020; Fall 2022)

ECON 214: Introduction to Economic Demography (Fall 2019 as part of Carlisle mosaic)

ECON 111: Introduction to Microeconomics (Fall 2020)

FYSM 100: FY Seminar: Calling Bulls**t: Fighting for Facts in a Post-Truth World (Fall 2021)

SINE 400: Senior Seminar in Social Innovation & Entrepreneurship (Spring 2023)

Assistant Professor, Dickinson College (2013 – 2019)

ECON 496: Economic Demography and Sustainable Development (Spring 2017; Spring 2019)

ECON 374: Econometrics (Fall 2013; Spring 2015; Spring 2016; Spring 2017; Spring 2018)

ECON 314: Urban Economics (Fall 2018)

ECON 298: Econometrics (Fall 2018)

ECON 222: Environmental Economics (Fall 2013; Fall 2014; Spring 2016; Fall 2016; Spring 2018; Fall 2018)

ECON 214: Statistical Methods in Economics (Fall 2014; Fall 2015)

ECON 111: Introduction to Microeconomics (Spring 2014; Spring 2015; Fall 2016)

FYSM 100: FY Seminar: Population & Sustainability (Fall 2015)

SINE 201: Introduction to Social Innovation & Entrepreneurship (Spring 2019)

Instructor, Colorado State University (2010 – 2013)

ECON 202: Principles of Microeconomics (Fall 2010)

ECON 204: Principles of Macroeconomics (Summer 2010; Spring 2011; Fall 2011; Spring 2012; Fall 2012; Spring 2013)

ECON 335: Introduction to Econometrics (Summer 2012, Fall 2012; on-campus and online)

Math Camp for incoming graduate students (Summer 2011, Summer 2012)