

Contact Information:	Department of Economics Middlebury College Warner Hall 502A Middlebury, VT 05753	(802) 443 2192 akhilr@middlebury.edu <a href="https://akhilrao.github.io">https://akhilrao.github.io</a> Citizenship: USA
Research Interests:	Environmental and Resource Economics, Computational Economics	
Appointments:	Assistant Professor, Middlebury College (2019-current) Graduate Part-Time Instructor, University of Colorado Boulder (2017-2019) Teaching Assistant, University of Colorado Boulder (2014-2016)	
Education:	PhD Economics, University of Colorado Boulder, 2019 MA Economics, University of Colorado Boulder, 2016 BS Business Administration, University of California Riverside, 2012	
Working Papers:	<p><b>"Disease-economy trade-offs under alternative pandemic control strategies"</b>, with Thomas Ash, Antonio M. Bento, Daniel Kaffine, and Ana I. Bento (<a href="#">medRxiv preprint</a>, <a href="#">github</a>)</p> <p><b>"Economic Principles of Space Traffic Control"</b>, (job market paper, <a href="#">latest draft</a>)</p> <p><b>"Open access to orbit and runaway space debris growth"</b>, with Giacomo Rondina (<a href="#">latest draft</a>)</p> <p><b>"Elicitation and Corrective Taxation"</b>, with Brennan McConnell (mimeo)</p>	
Publications:	<p><b>"A coupled econometric model of the orbital environment"</b>, with Francesca Letizia, in <i>8<sup>th</sup> European Conference on Space Debris Proceedings</i></p> <p><b>"Orbital-use fees could more than quadruple the value of the space industry"</b>, with Matthew Burgess and Daniel Kaffine, in <i>Proceedings of the National Academy of Sciences Jun 2020</i>, 117 (23)</p> <p><b>"The Economics of Orbit Use: Theory, Policy, and Measurement"</b> (dissertation abstract), in <i>Journal of the Association of Environmental and Resource Economists</i> 2020 7:1, iii-iii</p> <p><b>"The CENKI Space Economic Simulator: Analytical Verification of an Agent-Based Modeling Engine"</b>, with Trevor Bennett, Charles Cain, Nicholas Campbell, Andrew Gemer, John Marino, and Tobias Niederwieser, in <i>2018 IEEE Aerospace Conference Proceedings</i></p> <p><b>"The CENKI Space Economic Simulator: Demonstrating Agent-Based Modeling on Satellite Market Data"</b>, with Trevor Bennett, Charles Cain, Nicholas Campbell, Andrew Gemer, John Marino, and Tobias Niederwieser, in <i>2018 IEEE Aerospace Conference Proceedings</i></p>	
Works in progress:	<p><b>"International cooperation and competition in orbit-use management"</b>, with Aditya Jain</p> <p><b>"Framing the Colliders Debate"</b>, with James Wells</p> <p><b>"The great orbit war: a dynamic Cournot-Nash analysis of orbit use"</b>, with Sébastien Rouillon</p>	

**“Understanding the differential economic effects of peacekeeping in post-conflict states”**, with Timothy Passmore

**“Malthusian Limits to Capital Growth: Alaskan Reindeer from 1900 to 1940”**, with Ann Carlos and Catherine Massey

**“Welfare Consequences of Interplanetary Trade”**, with Doyoung Park

Teaching  
Experience:

Assistant Professor, Middlebury College:

- Space Economics (F 2021)
- Environmental Economics (F 2019, S 2020, S 2021, F 2021)
- Economic Statistics (F 2019, S 2020, F 2021)
- Independent Study (W 2020 with Aditya Jain, W 2021 with Collin Wilson, S 2021 with Gordon Lewis)

Graduate Part-Time Instructor, University of Colorado Boulder:

- Math Tools for Economists 1 (F/S 2018, F/S 2017)

Teaching Assistant, University of Colorado Boulder:

- Principles of Microeconomics (S 2019, F 2016, F 2015, F 2014)
- Principles of Macroeconomics (S 2016, S 2015)

Professional  
Experience:

Red9 Corporation, Data Analyst (2013-2015)

Seminars and  
Conference  
Presentations:

2021

- 8<sup>th</sup> European Conference on Space Debris
- IASC Commons in Space
- From Measurements to Understanding: MASTER Modelling Workshop

2020

- CODER 2020 workshop
- Astronomics Society Workshop on the Economics and Law of Space (postponed due to COVID-19)
- Secure World Foundation DC Workshop on Relevance of Economic Models to Space Debris Policy
- AERE Virtual Conference
- GOSEE Conference
- National Space Council Lunar Polar Resources Roundtable

2018

- Western Economic Association International AERE Session
- IEEE Aerospace Conference
- CU Algorithmic Economics Seminar
- CU Macroeconomics Seminar
- CU Environmental Economics Seminar
- Pacific Council PolicyWest

2017

- Heartland Environmental and Resource Economics Workshop at Illinois
- CU Environmental and Resource Economics Workshop
- CU Environmental Economics Seminar
- CU Macroeconomics Seminar

2016

- CU Environmental Economics Seminar

2015

- CU Environmental Economics Seminar

Non-academic writing:	<p><b>"Humans or Robots First?"</b>, in <i>Politico: The Agenda</i>, 6/13/19 (<a href="#">link</a>)</p> <p><b>"K-Town: Portrait of a Thousand-Person Mars Colony"</b>, with Jeff Greenblatt</p>
Grants, Awards, and Fellowships:	<p>2020 ProQuest CGS Distinguished Dissertation Award in Social Sciences</p> <p>2019 Wallace E. Oates Outstanding Doctoral Dissertation Award</p> <p>2018 Sieglinde Talbott Haller Fellowship in Economics</p> <p>2018 Graduate School Domestic Travel Grant</p> <p>2018 Center to Advance Research and Teaching in the Social Sciences Spring Graduate Student Award</p> <p>2018 Summer Graduate School Dissertation Fellowship</p> <p>2017 Reuben A. Zubrow Fellowship in Economics</p> <p>2013 Coro Southern California Fellows Program in Public Affairs</p>
Membership in Professional Associations:	<p>American Economic Association</p> <p>Association of Environmental and Resource Economists</p>
Professional service:	<p>Co-organizer, IASC Commons in Space virtual conference</p> <p>Reviewer: <i>Acta Astronautica</i>, <i>Space Policy</i>, <i>EcoHealth</i></p>
College Service:	<p>Middlebury AAUP Budget Working Group - ongoing</p> <p>Academic Advisor - 18 students, ongoing</p> <p>Thesis Advisor - 2 students (2019-2020)</p>