

# Akhil Rao

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## Address:

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## Contact:

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*Citizenship:* USA

## Research and Teaching Interests:

Natural Resource Economics, Environmental Economics, Computational Economics,  
Algorithmic Economics, Microeconomics

## Education:

PhD Economics, University of Colorado Boulder, expected 2019  
MA Economics, University of Colorado Boulder, 2016  
BS Business Administration, University of California Riverside, 2012

## Dissertation:

*Title:* The Economics of Orbit Use: Theory, Policy, and Measurement

*Adviser:* Dr. Daniel Kaffine

*Committee members:* Dr. Jonathan Hughes, Dr. Martin Boileau, Dr. Miles Kimball,  
Dr. Matthew Burgess

## Working Papers and Research in Progress:

Space Traffic Management: Economic Control of Orbital Congestion, working paper August 2018

Cost in Space: Debris and Collision Risk in the Orbital Commons, with Giacomo Rondina, working paper June 2018

Elicitation and Corrective Taxation, with Brennan McConnell, mimeo May 2018

## Conference publications:

The CENKI Space Economic Simulator: Analytical Verification of an Agent-Based Modeling Engine, with Trevor Bennett, Charles Cain, Nicholas Campbell, Andrew Gerner, John Marino, and Tobias Niederwieser, in *2018 IEEE Aerospace Conference Proceedings*

The CENKI Space Economic Simulator: Demonstrating Agent-Based Modeling on Satellite Market Data, with Trevor Bennett, Charles Cain, Nicholas Campbell, Andrew Gerner, John Marino, and Tobias Niederwieser, in *2018 IEEE Aerospace Conference Proceedings*

## Grants and Awards:

Center to Advance Research and Teaching in the Social Sciences (CARTSS) Spring 2018  
Graduate Student Award (\$850)

2018 Summer Graduate School Dissertation Fellowship (\$6000)

2017 Reuben A. Zubrow Fellowship in Economics (\$5000)

**Teaching Experience:**

Instructor, Math Tools for Economists 1, Fall 2018 (in progress)

Instructor, Math Tools for Economists 1, Spring 2018

Instructor, Math Tools for Economists 1, Fall 2017

Teaching Assistant, Intermediate Microeconomics, with Dr. Li Yao, Summer 2017 (5.7/6)

Instructor, Math Tools for Economists 1, Spring 2017 (5.4/6)

Teaching Assistant, Principles of Microeconomics, with Dr. Jeronimo Carballo, Fall 2016 (5.48/6)

Teaching Assistant, Principles of Macroeconomics, with Dr. Jay Kaplan, Spring 2016 (4.98/6)

Teaching Assistant, Principles of Microeconomics, with Dr. Jeronimo Carballo, Fall 2015 (5.6/6)

Teaching Assistant, Principles of Macroeconomics, with Dr. Murat Iyigun, Spring 2015 (5.4/6)

Teaching Assistant, Principles of Microeconomics, with Dr. Edward Morey, Fall 2014 (5.45/6)

**Presentations:**

2018: Western Economic Association International; IEEE Aerospace Conference;  
CU Algorithmic Economics Group; CU Macroeconomics Brown Bag;  
CU Environmental Economics Brown Bag

2017: Heartland Environmental and Resource Economics Workshop at Illinois;  
CU Environmental and Resource Economics Workshop;  
CU Environmental Economics Brown Bag; CU Macroeconomics Brown Bag

2016: CU Environmental Economics Brown Bag x2

2015: CU Environmental Economics Brown Bag

**Selected Coursework** (in addition to PhD Core Coursework):

- Environmental Economics I, II
- Econometrics Seminar I, II
- Economics of Risk and Time
- Computational Methods
- Algorithmic Economics and Machine Learning Theory
- Industrial Organization and Public Policy

**Other Work Experience:**

Data Analyst, Red9 Corporation, May 2013 - December 2015