

## RAYMOND CARAHER

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## EDUCATION

**Current Institution:** University of Massachusetts, Amherst, MA  
Concentration: Economics (PhD Candidate)

**University of Massachusetts, Amherst, MA**  
**Master of Arts, 2021**  
Concentration: Economics

**Hampshire College, Amherst, MA**  
**Bachelor of Arts, 2017**  
Concentration: Economics, Mathematics, and Political Economy

**East Chapel Hill High School, Chapel Hill, NC**  
**High School Degree, 2013**

## WRITINGS AND PUBLICATIONS

### *Working Papers*

Does Project-Level Foreign Aid Increase Access to Improved Water Sources? Evidence from Household Panel Data in Uganda (with Lynda Pickbourn and Leonce Ndikumana). *PERI Working Paper* (2021). Available at: <https://peri.umass.edu/component/k2/item/1553-does-project-level-foreign-aid-increase-access-to-improved-water-sources-evidence-from-household-panel-data-in-uganda>

Genetic Diversity and Economic Development: Assessing the Key Findings in Ashraf and Galor (2013) (with Michael Ash). *UMass Amherst Department of Economics Working Paper* (2018). Available at: <https://www.umass.edu/economics/publications/2018-05.pdf>

## RESEARCH EXPERIENCE

*Research Assistant* 2019 - present

Political Economy Research Institute (PERI), Amherst, MA

- Estimated unionized post office worker pay premiums in comparison to similar workers using CPS data
- Used time series methods to study long-term trends in fossil fuel emissions and economic growth for primary commodity countries
- Analyzed pay rates of Massachusetts farm workers and estimated costs of increased overtime pay by farm size
- Prepared reports and literature reviews for state-level studies on the Green New Deal and other environmental policies

*Research Assistant* 2017 - 2018

SageFox Consulting Group, Amherst, MA

- Managed and analyzed large datasets to evaluate NSF, NIH and other grant funded educational programs, especially those focused on promoting underrepresented minority participation in STEM fields
- Composed reports describing results of analysis

*Research Assistant* 2016 - 2017

Political Economy Project, *Jadaliyya*, Amherst, MA

- Compiled extended bibliography on critical political economy texts, with a focus on the Middle East, as a resource for scholars
- Annotated approximately 100 sources for a manuscript published by *Jadaliyya*

*Research Fellow* 2016 - 2017

Hampshire Learning Project, Hampshire College, Amherst, MA

- Conducted qualitative and quantitative data analysis utilizing several databases to evaluate the effectiveness of the Hampshire College curriculum
- Presented results to faculty and staff to advise institutional policy

## ADDITIONAL EXPERIENCE

*Teaching Assistant* 2016 - present

University of Massachusetts and Hampshire College, Amherst, MA

- Prepared lessons, gave lectures, and graded student assignments
- Taught material from the following courses: Introduction to Macroeconomics, Introduction to Microeconomics, Economic Development, and Political Economy of the Middle East

*Data Science Assistant* 2018

VentureWell, Hadley, MA

- Utilized R to manage and clean survey data from the NSF-sponsored I-Corps program
- Facilitated the migration of new and archived data to the Salesforce Cloud CRM

*Mathematics Tutor* 2015 - 2017

Quantitative Resource Center, School of Natural Sciences, Hampshire College, Amherst, MA

- Provided homework help for students engaged in quantitative work

- Tutored students in introductory and intermediate college-level math, especially in calculus and statistics

## **SKILLS**

### **Econometrics and Data Analysis**

- Experience with a variety of econometric techniques with a specialty in causal methods such as difference-in-differences, instrumental variables, regression discontinuity, and others
- Skilled in gathering, cleaning, and managing data to prepare for analyses

### **Software and Programming**

- Experience with R, Stata, Python, Microsoft Office Suite, LaTeX, Git, and other software

### **Writing and Communication**

- Ability to compose extended essays and reports
- Experience giving presentations on research

## **FELLOWSHIPS, GRANTS AND AWARDS**

**University of Massachusetts, Amherst Summer Doctoral Fellowship**, 2019 - present

**Lester Mazor Honorific Grant**, 2016

**Global Migrations Grant**, 2016

**Community Partners for Social Change Social Justice Scholar Grant**, 2016

## **INTERESTS**

Labor Economics; Economics of Race and Gender; International Economics; Economic Development