

# Robert Baluja

Department of Economics, University of Arizona

Email: [RobertBaluja@gmail.com](mailto:RobertBaluja@gmail.com)

## RESEARCH FIELDS

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Environmental Economics, Industrial Organization, Labor Economics

## EDUCATION

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### University of Arizona

*Ph.D. (M.A. en route) - Economics*

Tucson, AZ

*Expected 2025*

### University of California, San Diego

*B.S. - Mathematics & Economics; Summa Cum Laude*

La Jolla, CA

*2020*

## WORKING PAPERS

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### Escape the Heat: The Dynamics of Migration as Adaptation to Climate Change

*To understand the effectiveness of migration in limiting exposure to future climate damages, I specify and estimate a dynamic lifecycle model of migration within Mexico. I combine the lifecycle model with a non-stationary model of the climate which varies throughout the country, and I allow for individuals to form either sophisticated or naive expectations of its future progression. Estimation of the model uses a sample of life histories, covering the years 1950–2019, and follows a nested full-solution pseudo-maximum likelihood routine. I combine the estimated model with full-count census data to simulate forward population movements through 2080 under a variety of counterfactual scenarios. First, I find that predicted warming under a business-as-usual climate scenario will lead to an increase in the value of the ability to migrate of over 69% across a single age generation. Moreover, the ability to migrate domestically reduces expected lifetime climate damages. This reduction is increasing in the degree of warming: today's young adults face 28% lower lifetime climate damages because of their ability to migrate whereas today's infants face 33% lower lifetime damages from the same. I further use the model to understand the different incentives that are created by the dynamic structure of policy. Policies which seek to encourage actions that are costly, infrequently chosen, and available more than once, can deliver substantial welfare benefits when designed appropriately.*

### PFAS-Contaminated Drinking Water Harms Infants

with Bo Guo, Wesley Howden, Ashley Langer, and Derek Lemoine

In revision for *Science*

*There is evidence of widespread human exposure to per- and polyfluoroalkyl substances (PFAS) but limited evidence of human health impacts. Using data on all New Hampshire births from 2010–2019, we show that receiving water that has flowed beneath a PFAS-contaminated site increases first-year infant mortality by 161% [95% CI: 70–251%], the chance of a birth before 28 weeks of gestational age by 120% [95% CI: 30–210%], and the chance of birthweight below 1,000 g by 152% [95% CI: 48–257%]. Extrapolating to the contiguous U.S., PFAS contamination imposes annual social costs of approximately \$8 billion. These health costs are substantially larger than the cost of removing PFAS from the public water supply.*

## PRESENTATIONS

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**2024:** AERE Summer Conference, University of Arizona Econometrics Lunch

**2023:** AERE@OSWEET, AERE@WEAI, AZ ENREE Workshop, Columbia University IO Colloquium, Sacramento Economics Roundtable, 2<sup>nd</sup> Summer School on the Economics of Migration

**2022:** CU Environmental & Resource Economics Workshop

**2019:** UCSD Faculty Mentor Program Symposium, UCSD Undergraduate Research Conference

## VISITS

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**2023:** PER-IO Graduate Student Visitor, Department of Economics, Columbia University

## GRANTS AND AWARDS

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**2024:** Dror Research Excellence Award, AERE Travel Scholarship, GPSC Travel Grant

**2023:** AEA Mentoring Program Travel Grant

**2022:** Steve Manos Prize for Best Second-Year Paper, GPSC Travel Grant

**2020:** Phi Beta Kappa

## RESEARCH EXPERIENCE

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### **Research Assistant**

*Prof. Ashley Langer*

University of Arizona

*Spring 2022 - Present*

### **Research Assistant**

*Prof. Derek Lemoine*

University of Arizona

*Spring 2022 - Fall 2023*

### **Research Assistant**

*Prof. Philip Roeder*

University of California, San Diego

*Spring 2019*

## TEACHING

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### **Instructor of Record**

Microeconomic Analysis for Business Decisions - Spring 2025 (Online)

Macroeconomic and Global Institutions and Policy - Summer 2024 (Online)

Basic Economic Issues - Summer 2023 (In-Person)

### **Teaching Assistant**

Environmental Economics - Spring 2024

Economics of Sports - Spring 2023

Mathematical Economics (PhD) - Fall 2021, Fall 2022

Math Camp (PhD) - Summer 2022

Economics of Strategy - Fall 2020, Spring 2021

Climate Science & Economics: How Should Policy Control Warming? - Fall 2021

Basic Economic Issues - Fall 2020

## SKILLS SUMMARY

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**Programming Languages:** Julia, Python, R

**(Non-Programming) Languages:** English (Native), Spanish (Conversational)