

Robert Baluja

Department of Economics, University of Arizona

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RESEARCH FIELDS

Environmental Economics, Industrial Organization, Labor Economics

EDUCATION

University of Arizona

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

Tucson, AZ

Expected 2025

Columbia University

PER-IO Graduate Student Visitor, Department of Economics

New York, NY

2023

University of California, San Diego

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

La Jolla, CA

2020

WORKING PAPERS

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 this with a non-stationary and spatially-varying model of the climate, of which I allow for both fully-informed and naive expectations of the 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 find that predicted warming under a business-as-usual climate scenario will lead to an increase in the value placed on the ability to migrate domestically of over 69% across a single generation. I also use the model to understand the value of information on the climate system. I find that climate-naïve individuals are willing to pay an average of \$1,120, across their lifetimes, to obtain correct information on the climate transition, under business-as-usual warming. This has important policy implications for the design of information campaigns to aid in climate adaptation.

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

2024: AERE Summer Conference, University of Arizona Econometrics Lunch

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

2022: CU Environmental & Resource Economics Workshop

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

GRANTS AND AWARDS

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

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

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

Programming Languages: Julia, Python, R

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

REFERENCES

Prof. Ashley Langer

Department of Economics

University of Arizona

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Prof. Derek Lemoine

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Prof. Juan Pantano

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