

CONTACT
INFORMATION

Department of Economics
The Ohio State University
321 Arps Hall
1945 N. High St.
Columbus, OH 43210

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EDUCATION

The Ohio State University, Columbus, OH

Ph.D. Economics

May 2023 (Expected)

M.A. Economics

December 2020

The University of Texas at Austin, Austin, TX

M.A. Economics

May 2017

B.S. Pure Mathematics

May 2013

B.A. Economics with Special Honors

May 2013

B.A. Government

May 2013

RESEARCH
INTERESTS

Quantitative Macroeconomics, Computational Economics,
Inequality, Social Mobility, Household Finance

WORKING
PAPERS

EGMⁿ: The Sequential Endogenous Grid Method

The software for this project is being developed as part of the **Econ-ARK/HARK** toolkit and can be found at [alanlujan91/HARK](https://github.com/alanlujan91/HARK) and [alanlujan91/SequentialEGM](https://github.com/alanlujan91/SequentialEGM).

Portfolio Choice and Risky Housing *with Christopher D. Carroll and Mateo Velásquez-Giraldo.*

Open source at [econ-ark/PortfolioChoiceWithRiskyHousing](https://github.com/econ-ark/PortfolioChoiceWithRiskyHousing).

Simulating Heterogeneous Portfolio Choices and Financial Market Outcomes *with Sebastian Benthall, Christopher D. Carroll, Zachary David, John Liechty, Christopher McComb, and Nicholas Skar-Gislunge.*

This project is supported by DARPA through cooperative agreement No. HR001 12220029 and can be found at [sbenthall/SHARKFin](https://github.com/sbenthall/SHARKFin).

WORK IN
PROGRESS

A practical guide to Multivariate Interpolation on Irregular grids

Open source project at [alanlujan91/HARK@map_coordinates](https://github.com/alanlujan91/HARK@map_coordinates).

Student debt and financial distress during the COVID-19 Pandemic

Fixed Point Endogenous Grid Method

AWARDS AND
SCHOLARSHIPS

Distinguished University Fellowship, The Ohio State University
2017-2018 and 2022-2023

Graduate Associate Teaching Award, The Ohio State University
For outstanding work as Independent Instructor May 2021

Larry and Shelia Kantor Award, The Ohio State University
In recognition of service to the graduate student population in the Department
of Economics May 2021

Economics Scholars Program for Undergraduate Research, Federal
Reserve Bank of Dallas April 2013

Surender Kumar Jain Award for Best Paper in Computational Economics,
The University of Texas at Austin May 2013

RESEARCH
EXPERIENCE

Google Summer of Code 2020 participant with Econ-Ark
Worked with Dr. Carroll (JHU Economics) and Econ-Ark team on fast
solutions to heterogeneous agent structural models of economic choices.

OPEN SOURCE
CONTRIBUTIONS

github.com/econ-ark/HARK
github.com/QuantEcon/QuantEcon.py
github.com/sbenthall/SHARKFin

TEACHING
EXPERIENCE

Independent Instructor, The Ohio State University
ECON 2367.02 - Current Economic Issues in the U.S. Spring 2021
ECON 2367.02 - Current Economic Issues in the U.S. Fall 2020
ECON 2002.01 - Principles of Macroeconomics Summer 2020
Recitation Leader, The Ohio State University
ECON 8732 - (PhD) Econometrics II Spring 2019
ECON 2001.01 - Principles of Microeconomics Fall 2018

SERVICE TO
UNIVERSITY

Graduate Student Representative, Diversity Equity and Inclusion
Committee, Department of Economics Fall 2020 - Current
Delegate, Council of Graduate Students
The Ohio State University Fall 2020 - Spring 2022
President, Economics Graduate Student Society
Fall 2018 - Spring 2020

ADDITIONAL
INFORMATION

Computer Skills: Python, R
Languages: English (fluent), Spanish (native)
Citizenship: Mexican citizen, US permanent resident.
Work Authorization: Authorized to work for any US employer (no sponsorship
required).