

ZACHARY KESSLER

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Education:

George Mason University, Fairfax, VA

Ph.D. in Economics

Dissertation Title: “An Algorithmic Framework for Modeling Institutional Processes: Applications to Industrial Organization, Development, and Macroeconomics”

Graduation: May 2022

George Mason University, Fairfax, VA

MA, Economics

Graduation: May 2020

Florida Southern College, Lakeland, FL

Bachelor of Science, *summa cum laude*

Majors: Political Economy, Economics and Finance, Business Administration

Graduation: May 2018

Professional Career:

Alan Turing Institute, London, UK

Postdoctoral Research Associate

Public Policy Programme, Policy Modelling Team

June 2022 – Present

George Mason University, Fairfax, VA, USA

Adjunct Faculty

Economics Department

August 2022 – Present

Publications:

Kessler, Z. and Wagner, R. E. (2022) State-Market Entanglement: Some Implications for the Theory of Public Finance, *Journal of Public Finance and Public Choice*

Cardan, A., Caskey, G, and Kessler Z. (2021) Going Far By Going Together: James M. Buchanan’s Economics of Shared Ethics, *Business Ethics Quarterly*

Working Papers:

Reverse Matching Outcomes in O-Ring Production: Evidence from an Endogenous Sorting Model (Under Review, *Journal of Economics Dynamics and Control*) – Zachary Kessler

A Reinforcement Learning Method for Estimating the Effects of Institutional Mechanisms on Policy: A Macroeconomic Example – Zachary Kessler

Network Effect Generation through Political and Market Interaction: Evidence from Florida Home Values – Zachary Kessler

Endogenous Technology Formation through Skill-based Sorting: Evidence from U.S. Occupational Wages – Zachary Kessler and Omar Guerrero

Professional Activities:

Public Choice Society, March 12, 2022, Economic Development and Computational Economics, A New Economic Cybernetics: Computational Institutions Applied to Behavioral Macroeconomic Models

Public Choice Society, March 12, 2022, Applied Political Economy, Endogenous Network Effect Generation through Political and Market Interaction: Evidence from Florida Home Values

Southern Economic Association Conference, November 22nd 2021, Markets and Firms, A Theory of Property Systems: Endogenous Network Generation through Political and Market Interaction

Southern Economic Association Conference, November 21st 2021, Applied Topics in Political Economy and Institutional Economics, A Theory of Emergent Government Power and Constraint: An Application to Federal Budgeting

George Mason University Computational Social Science Colloquium, October 1, 2021, An Agent-based Model of the O-Ring Theory of Development: Issues with Endogenous Skill Matching

International Workshop on Agentization, September 16, 2021, An Agent-based Model of the O-Ring Theory of Development: Issues with Endogenous Skill Matching

Public Choice Society Meetings, March 13, 2021, Political Economy, Presenter, Examining the Endogenous Institutional Conditions Shaping Revolutionary Outcomes: Evidence from the Arab Spring

Public Choice Society Meetings, March 13, 2021, Virginia Political Economy I: System Theories, Presenter, An Entropic Systems Theory of Market-State Interaction

Eastern Economic Association Annual Conference, February 27, 2021, Mathematical Economics, Presenter, The Solow-Swan Model at Scale: An Agent-based Approach to Macro Model Replication

Southern Economic Association Annual Conference, November 23, 2020, The New Frontiers of Non-Comprehensive Planning, Presenter, More Information, More Problems: An Examination of Information Technology's Impact on the Knowledge Problem

Southern Economic Association Annual Conference, November 22, 2020, Central Planning and Urban Economics, Presenter, Towards an Entangled Theory of Property Rights: The Implications of State and Market Cooperation in Value Development

Western Economic Association International Virtual Annual Conference, June 29, 2020, Collective Decision Making, Presenter, The Arab Spring's Seasonal Depression: Developing and Applying Revolution as a Redistributive Mechanism

Workshops and External Courses:

Oxford Summer School in Economic Networks, June 21-25, 2021

Tinbergen Institute Behavioral Macro and Complexity, August 23-27, 2021

Teaching Experiences:

Adjunct Professor:

Fall 2022, ECON 420 International Money and Finance

Spring 2023, ECON 421 Financial Economics

Graduate Lecturer:

Fall 2020, ECON 360 Economics of Developing Area

Spring 2021, ECON 310 Money and Banking

Summer 2021, ECON 104 Principles of Macroeconomics

Fall 2021, ECON 309 Economic Problems and Public Policy

Teaching Assistant:

Spring 2021, ECON 615 Macroeconomic Theory

Summer 2021, ECON 615 Macroeconomic Theory,

Fields:

Primary Fields: Political Economy, Macroeconomics, Computational Economics

Secondary Fields: Network Theory, Artificial Intelligence, Labor Economics

Research Experience:

2018-2022 Mercatus Center, Research Assistant

Seminars:

IHS Summer Seminar: Modern Challenges to Liberty, July 12-18, 2021

Fellowships:

2018-2022 Mercatus PhD Fellowship

2022 Public Choice Student Fellow

2019-2021 Mercatus Center Graduate Student Summer Research Fellowship

2021 IHS Graduate Fellowship