

# Abigail N. Devereaux

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## Education

**Ph.D. in Economics—George Mason University, 2020**

*Complexity economics, game theory, macroeconomics, Austrian economics*

**Dissertation:** “Synecological Systems Theory: An Alternative Foundation for Economic Inquiry”

**Advisor:** Richard Wagner

**M.A. in Economics—George Mason University, 2017**

**M.A. in Mathematics—Boston University, 2007**

*Differential geometry, algebraic topology*

**B.A. in Physics, *summa cum laude*—Boston University, 2004**

*Experimental high-energy particle physics, quantum theory*

## Professional Experience

**Assistant Professor in Economics—Wichita State University, Aug. 2020-**

ECON 202: Principles of Microeconomics, ECON 622: Economies in Transition, ECON 777: Game Theory and Mechanism Design, BADM 100: Exploring the Foundations of Business

**Research Fellow—Institute for the Study of Economic Growth, Aug. 2020-**

**Ph.D. Fellow in Economics—New York University, 2018-20**

**Mercatus Ph.D. Fellow in Economics, George Mason University, 2016-20**

**Research Assistant to Richard E. Wagner, Economics, George Mason University, 2016-20**

*Research areas: Macroeconomic theory, agent-based modeling, game theory*

**Graduate Lecturer, Economics, George Mason University, 2017-18**

ECON 306: Intermediate Microeconomics, ECON 385: International Economic Policy, ECON 412: Game Theory and Institutions, ECON 380: Economies in Transition

**Teaching Assistant to Carlos Ramirez, Economics, George Mason University, 2015-16**

ECON 715: Graduate Macroeconomics I, ECON 871: International Monetary Economics

**Departmental Tutor for PhD Students, Economics, George Mason University, 2016-17**

**PhD Student Math Camp Instructor, George Mason University, Summer 2016**

**Departmental Tutor for Undergraduates, Economics, George Mason University, 2015-16**

**Technical Project Manager, Wolfram Research, Boston, MA, 2007-15**

*Project areas:* Application development in Mathematica, complex systems science and educational technology project developer, instructor and event manager for the NKS/Wolfram Science Summer School, journal peer-review and administration.

**Research Assistant, ATLAS Muon Spectrometer Project for the CERN Large Hadron Collider, Harvard University High-Energy Physics Laboratory, Cambridge, MA, 2002-4**

*Project areas:* Wrote software in C++ to graphically track particles in real-time as they traveled through the muon detectors; helped to build, connect, trouble-shoot, fix and test detectors.

*Advisor:* Dr. Steve Ahlen

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## Peer-Reviewed Publications

- Devereaux, A. (2021), The digital Wild West: on social entrepreneurship in extended reality. *Journal of Entrepreneurship and Public Policy*, Vol. 10 No. 2, pp. 198-217. <https://doi.org/10.1108/JEPP-03-2019-0018>
- Murphy, J., Devereaux, A., Goodman, N., & Koppl, R. (2021). Expert Failure and Pandemics: On Adapting to Life With Pandemics. *Cosmos + Taxis*, 9(5+6), 9-17.
- Goodman, N., Coyne, C., & Devereaux, A. N. (2021). Infectious diseases and government growth. *The Independent Review*, 25(4).
- Klein, D. B., Briggeman, J., Davis, W. L., & Devereaux, A. (2021). Are So-Called Normative Statements Practically the Same as Suitably Formulated So-Called Positive Statements? Evidence from a Survey of Economics Professors. *Cosmos + Taxis*, 9(1+2), 70-89.
- Devereaux, A. N., & Peng, L. (2020). Give us a little social credit: To design or to discover personal ratings in the era of Big Data. *Journal of Institutional Economics*, 1-19. doi:10.1017/S1744137419000754
- Devereaux, A. N., & Wagner, R. E. (2020). Contrasting visions for macroeconomic theory: DSGE and OEE. *The American Economist*, 65(1), 28-50.
- Devereaux, A. (2019). The Augmented Commons: How Augmented Reality Aids Agile Self-Organization. *Journal of Private Enterprise*, 34(2), 81-101.
- Devereaux, A. N. (2019). The nudge wars: A modern socialist calculation debate. *The Review of Austrian Economics*, 32(2), 139-158.
- Nussey, A. (2010). "Outer Median and Probabilistic Cellular Automata on Network Topologies." *Complex Systems*, Volume 18, Issue 4.

## Book Chapters and Book Reviews

- Devereaux, A. N. (forthcoming). "Seven Stepping Stones to a Systems Theory of Economics." In: Coyne, Christopher, Boettke, Peter (Eds), Festschrift for Richard E. Wagner (working title). Mercatus Center at George Mason University.
- Devereaux, A. N. (2020). Book Review: Darcy W.E. Allen, Chris Berg, and Aaron M. Lane, Cryptodemocracy How Blockchain Can Radically Expand Democratic Choice: Lexington Books, Lanham, MD, 2019, 164 pp. *The Independent Review*.
- Devereaux, A. (2020) Complex and Entangled Public Policy: Here Be Dragons. In: Hebert D.J., Thomas D.W. (eds) Emergence, Entanglement, and Political Economy. *Studies in Public Choice*, vol 38. Springer, Cham. [https://doi.org/10.1007/978-3-030-56088-1\\_4](https://doi.org/10.1007/978-3-030-56088-1_4)
- Devereaux, A. N., & Wagner, R. E. (2018). "Emergence, Equilibrium, and Agent-Based Modeling: Updating James Buchanan's Democratic Political Economy." In *James M. Buchanan* (pp. 109-129). Palgrave Macmillan, Cham.
- Devereaux, A. N. (2016). Book Review: David Colander and Roland Kupers, Complexity and the Art of Public Policy: Solving Society's Problems from the Bottom Up: Princeton University Press, Princeton, NJ, 2016, 320 pp, USD 22.95 (cloth). *Public Choice*.

## Invited Articles

- Devereaux, A. N. (2019). Approaching the Singularity Behind the Veil of Incomputability: On Algorithmic Governance, the Economist-as-Expert, and the Piecemeal Circumnavigation of the Administrative State. *Cosmos & Taxis*, 7(1+2), 19-29.

## Public-Oriented Articles and Essays

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Devereaux, A. N. (May 6, 2021). "Restricting the unvaccinated sets a dangerous precedent." *The Hill*. Available at: <https://thehill.com/opinion/healthcare/552150-restricting-the-unvaccinated-sets-a-dangerous-precedent>

Devereaux, A. N. (Aug 1, 2020). "Longer Lockdowns Associated with Much Worse Economic Outcomes." *AIER*. Available at: <https://www.aier.org/article/longer-lockdowns-associated-with-much-worse-economic-outcomes/>

Devereaux, A. N. (June 5, 2020). "Unemployment Drop Due to Fewer States with Lockdowns." *AIER*. Available at: <https://www.aier.org/article/unemployment-drop-due-to-fewer-states-with-lockdowns/>

Devereaux, A. N. (June 4, 2020). "Unemployment Far Worse in Lockdown States, Data Show." *AIER*. Available at: <https://www.aier.org/article/unemployment-far-worse-in-lockdown-states-data-show/>

## Media Appearances

### Television

McKinney, K. (Host). (2020, Dec 30). Interview w/Professor & Fellow at the Independent Institute, Abigail Devereaux. *Tipping Point*. One America News Network.

McKinney, K. (Host). (2020, Dec 1). Interview w/Professor & Fellow at the Independent Institute, Abigail Devereaux. *Tipping Point*. One America News Network.

Ball, D. (Host). (2020, Nov 23). Interview W/ Professor & Fellow At The Independent Institute, Abby Devereaux, *Real America*. One America News Network.

Stephens, K., & De La Vega, J. (Hosts). (2020, Nov 20). Interview w/ Professor & Fellow At The Independent Institute, Abigail Devereaux, *Great Day*. KMPH Fox News, Fresno.

### Podcasts and Radio

Kraske, S. (Host). (2021, Aug 19). A worker's economy. *Up to Date*, KCUR 89.3 – NPR in Kansas City.

"[Macroeconomics as Systems Theory Book Panel](#)" (2021, Feb 24). F. A. Hayek Program, Mercatus Original Podcast.

Comegna, A. (Host). (2020, Sep 15). Is the economy computible? with Abigail Devereaux [Audio podcast episode]. In *Ideas in Progress*. Institute for the Humane Studies. <https://podcasts.apple.com/us/podcast/is-the-economy-computible-with-abigail-devereaux/id1482051492?i=1000491394722>

Comegna, A. (Host). (2020, Sep 9). What's an algorithm, anyway? with Abigail Devereaux [Audio podcast episode]. In *Ideas in Progress*. Institute for the Humane Studies. <https://podcasts.apple.com/us/podcast/what-is-an-algorithm-anyways-with-abigail-devereaux/id1482051492?i=1000490616831>

Kraske, S. (Host). (2020, Aug 3). How Lapsing Federal Unemployment Benefits Could Affect The Economy In Kansas & Missouri. *Up To Date*, KCUR 89.3 – NPR in Kansas City. <https://www.kcur.org/podcast/up-to-date/2020-08-03/how-lapsing-federal-unemployment-benefits-could-affect-the-economy-in-kansas-missouri>

## Presentations

**IDEAS Workshop at NDSU**, North Dakota State University (virtual)

Apr. 22, 2022. "The Clarke's Law Gap: How Magical Innovation Outpaces Regulation?"

**Praxis Society**, Hillsdale University, Hillsdale, Michigan

February 17, 2022. "Algorithmic Nudge: A New Cybernetics of Social Control?"

**Pacific Forum**, Honolulu, Hawaii (virtual)

Dec. 3, 2021: Presentation on China's Social Credit system.

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## **Institute for the Study of Economic Growth, Wichita State University**

Dec. 29, 2021: Presentation on China's Social Credit System, ISEG Mentoring Lunch.

## **Mont Pelerin Society Meetings, Guatemala City, Guatemala**

Nov. 15-19, 2021: "The limits of control in the face of accelerating growth: a complexity economist's view."

## **Bastiat Society of Wichita, Wichita, KS**

Sep. 30 2021: "On China's Social Credit System and other forms of algorithmic governance"

## **Entangled Political Economy Research Network, virtual**

Apr 20 2021: "The theory of action area entanglement." Available at:

<https://www.youtube.com/watch?v=f7QqwmzkCiE>

## **James Madison Economics Seminar Series**

Apr 2 2021: "Synecological Systems and Entangled Political Economy"

## **2020 Research Conference on Voluntary Governance, Arizona State University**

Nov. 5-7, 2020: "Explaining Technology" with Roger Koppl

## **Southern Economic Association meetings**

Nov. 20-22, 2021: Chaired Presidential session. Presented "The limits of control in the face of accelerating growth: a complexity economist's view," and "Shakespeare's Four Ages of Academia"

Nov. 21-23, 2020: "You Can't Get There from Here: The Economics of Organized Complexity," "Classifying Economic Complexity: Levels & Ties and Behaviors, Oh My!"

Nov. 23-25 2019: "The Algorithmic Use of Knowledge: An Austrian Response to Cybernetic Hypernudge," "An Agent-Based Model of Synecological Game Theory"

Nov. 17-19 2017: "Contrasting Visions for Macroeconomic Theory: DSGE and OEE"

Nov 19-21 2016: "The Nudge Wars: A Glimpse into the Modern Socialist Calculation Debate," "Macro Theory Within An Ecological Framework"

## **Simulation in the Social Sciences, Paris 1 Sorbonne**

Oct. 10-11 2019: "Agent-based Modeling as Quintessential Tool for Open-ended Social Theorizing"

## **NYU Colloquium on Market Institutions and Economic Processes, New York University**

Sept. 23 2019: "Multiple Games Analysis as a Petri Dish for Polycentric Orders"

Jan. 28 2019: "Give Us a Little Social Credit: To Design or Discover Personal Ratings in the Era of Big Data"

## **Institute for Humane Studies Summer Graduate Research Colloquium**

July 12-15 2018: "Game Theory as Social Theory: The Synecological Minimum"

July 6-9, 2017: "Cascades, Cycles and Creativity: The Endogenous Dynamics of a Systems Theoretic Economics"

## **Association of Private Enterprise Education meetings**

April 3-5 2022: Panelist, "Are Cryptocurrencies Living Up To or Exceeding Our Initial Expectations?"

April 1-4 2018: "Give Us a Little Social Credit: A Near-Future Tug of War Between Explorers and Exploiters"

April 9-12 2017: "The Augmented Commons: How Technology Could Help Solve Problems of Public Goods and Aid Agile Self-organization"

## **Public Choice Society meetings**

Mar 10-12 2022: "The limits of control in the face of accelerating growth: an entangled political economy perspective."

Mar 11-14 2021: "The Emergence and Entanglement of Economic Indicators," and "Formalizing Polycentric Governance: Could 'Synecological' Systems Show the Way Forward?"

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Mar. 1-3 2018: "Complex and Entangled Public Policy: Here Be Dragons"  
**NKS Midwest Conference 2008**, Indiana University  
Oct 31-Nov 2 2008: "Outer Median Cellular Automaton Rules in 1D, 2D, and on Graphs."

## Academic Service

### Session Chair/Organizer

Mar 10-12 2022, Public Choice Society Meetings: Chair/Organizer of "Entangled Political Economy" session

Nov. 20-22, 2021: Southern Economic Association Meetings, Chair/Organizer of "Complexity Economics" session

Mar 11-14 2021, Public Choice Society Meetings: Chair/Organizer of two "Entangled Political Economy" sessions

Nov. 20-22, 2021, Southern Economic Association Meetings: Chair/Organizer of Presidential Session on "Complexity Economics"

### Panel Moderator

"Panel Discussion on Politics and Economics Without Romance: Special Interests and Policy." *Foundations for the Market Economy* at New York University. March 2, 2020.  
<https://wp.nyu.edu/marketfoundations/panels-and-lectures/>

### Panelist

Book Panel on Richard Wagner's "Macroeconomics as Systems Theory," hosted by the Mercatus Center at George Mason University. January 28, 2021. (Video on YouTube)

## Professional Affiliations

**American Institute for Economic Research**, *Public Choice and Public Policy Fellow*, December 2021-present

**Institute for the Study of Economic Growth** at Wichita State University, *Research Fellow*, August 2020-present

**Classical Liberal Institute** at New York University, *Fellow*, August 2018-present

**Independent Institute**, *Research Fellow*, November 2020-present

**Entangled Political Economy Research Network**, *Founding Member*, June 2020-present

**Ostrom Workshop**, *External Faculty Affiliate*, March 2021-present

**Southern Economic Association**, *Member*, 2016-present

**Society for the Development of Austrian Economics**, *Member*, 2016-present

## Professional Development

**Applied Research: Foundations of a Free Society** (October 21-24, 2021), Fairfax, VA  
Hosted by the Institute for the Humane Studies.

**Social Innovation Framework Workshop** (June 15-16, 2021), Arlington, VA  
Hosted by the Stand Together Foundation.

**Exploring the Frontiers: Social Innovation & Entrepreneurship** (Oct. 29 & 30, 2020)  
Essay: "The Case for CASE Analysis: Complex Adaptive Social Entrepreneurship"

**Santa Fe Institute's Complexity Science Summer School** (Summer, 2016)  
Projects: "The City as an Ecology of Plans," and "Group Emergence"

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**Santa Fe Institute:** “Exploring Complexity in Social Systems & Economics” (January 4-7, 2016)

**New Kind of Science Summer School,** University of Vermont (Summers 2008 & 2010).

Project: “Digital Song Composition with Cellular Automata”

Project: “Outer Median and Probabilistic Cellular Automata on Network Topologies”

## Selected Awards

Elinor Ostrom Prize (2021)

Israel M. Kirzner Award for Outstanding Dissertation in Austrian Economics (2020)

NYU PhD Fellowship in Economics (2019, 2018)

Mercatus PhD Fellowship (2019, 2018, 2017, 2016)

Institute for Humane Studies PhD Fellowship (2019, 2018, 2017, 2016)

Mercatus Summer Research Fellowship (2019, 2018, 2017, 2016)

## Languages

**Human:** Native English, proficient French, tourist-level Spanish

**Computer:** *Mathematica*, Python, R, NetLogo, C++, STATA

## Other Creative Interests and Proficiencies

**Music:** Proficient in operatic voice, piano, and classical and digital composition.

**Writing:** Proficient in literary nonfiction, fiction, poetry.

**Art:** Realist painter in oils and oil pastels.