

# JOFFA M. APPLGATE

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## RESEARCH INTERESTS

Complexity Economics, Evolutionary Economics, Labor Economics, Monetary Economics, Theory of the Firm, Political Economy, Complex Adaptive Systems, Computational Social Sciences, Dynamical Modeling, Multi-Agent Modeling

## EDUCATION

Ph.D. Applied Mathematics for Life and Social Sciences

Concentration in Complex Adaptive Systems

Dissertation: “Complexity Studies of Firm Dynamics”

Arizona State University, 2018

M.S. Physics

Thesis: “A Study of Isospin Symmetry Breaking in  $^{12}\text{C}$  with 50 MeV Pions”

Arizona State University, 1992

B.S. Physics, English minor

North Carolina State University, 1990

## APPOINTMENTS

2019–present: Assistant Research Professor, Arizona State University, Tempe, AZ

2020–present: Complex Adaptive Systems Science Graduate Faculty

2020–present: Knowledge Exchange for Resilience Cross Cutting Scholar

2018: Postdoctoral Researcher, Arizona State University, Tempe, AZ

## PUBLICATIONS

Paper submitted to *Computational Economics*, October 2019.

Paper under revision with *Journal of Evolutionary Economics*, August 2019.

Wellman, N., Applegate, J. M., Harlow, J., & Johnston, E. W. “Beyond the Pyramid: Alternative Forms of Formal Hierarchical Differentiation and Team Performance.” *Academy of Management Journal*, July 2019.

Applegate, J (2018, July 13). “Emergent Firms Model” (Version 1.0.0). CoMSES Computational Model Library. Retrieved from: <https://doi.org/10.25937/6t61-qm82>.

Applegate, J, Wellman, Ned (2017, December 21). “Empathy and Power” (Version 1.1.0). CoMSES Computational Model Library.

Retrieved from: <https://www.comses.net/codebases/5863/releases/1.1.0/>.

Applegate, J, Hoetker, Glenn (2017, December 21). “Strategy with Externalities” (Version 1.0.0). CoMSES Computational Model Library.

Retrieved from: <https://www.comses.net/codebases/5196/releases/1.0.0/>.

“Low-energy pion scattering to  $1^-$  states in  $^{12}\text{C}$ ”, Kormanyos, C. M. ; Peterson, R. J. ; Applegate, J. et al, *Physical Review C (Nuclear Physics)*, Volume 48, July 1993, pp.250-255

“Systematics of the double isobaric analog state cross section at 50 MeV”, Ward, H. ; Applegate, J. M. et al, *Physical Review C (Nuclear Physics)*, Volume 47, February 1993, pp.687-692

#### RESEARCH VISITS & INVITED TALKS

Instructor, International Winter School for Agent-Based Modeling of Social-Ecological Systems, January, 2020

Global Climate Forum, Berlin, Germany, June 2019

Institute for New Economic Thinking, Oxford, UK, February 2019

Institute for New Economic Thinking, Oxford, UK, October 2018  
“Endogenous Wage Dynamics and Wealth Inequality”

Los Alamos National Laboratory, Los Alamos, New Mexico 1990 - 1992

#### OTHER PROFESSIONAL EXPERIENCE

Waldorf College Project, Gloucestershire, United Kingdom

Chair of Trustees, 2007 - 2011

Director of Maths and Science, 2004 - 2006

KPMG Consulting, Mountain View, California

Manager, 2000 - 2003

Global Networking and Computing, Redwood City, California

Manager, 2000

K Computing, Mountain View, California

Instructor, 1998 - 2000