

Guinevere Liberty Nell
Research Programmer & Policy Analyst

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Education

George Mason University, doctoral program, accepted 2009
Coursework toward degree in biochemistry and economics (2003-2008)

Books

“Rediscovering Fire: Basic Economic Lessons from the Soviet Experiment,” New York: Algora, 2010

Paper Presentations

"Competition as market progress: An Austrian rationale for agent-based modeling," *The Heritage Foundation*, September 2010

“Rent-seeking, Centralization and Emergence: An Evolutionary Approach to Choice in Public and Private Sectors,” Fund for the Study of Spontaneous Orders, 2009

“The Dynamic Consequences of Public Employment : An Agent Based Approach,” (revised and updated), Economic Science with Heterogeneous Interacting Agents (ESHIA), Warsaw University of Technology, 2008

“The Dynamic Consequences of Public Employment : An Agent Based Approach,” Economic Science with Heterogeneous Interacting Agents (ESHIA), George Mason University, 2007

Published Papers

“Rent-Seeking, Hierarchy and the Centralization: Why the Soviet Union Collapsed So Fast and What it Means for Market Economies”, *Critical Review*, forthcoming 2010

"Competition as market progress: An Austrian rationale for agent-based modeling," *Review of Austrian Economics*, Springer, vol. 23(2), pages 127-145, June 2010

“Agent Based Modeling in Perl,” *The Perl Review*, 2006

Select Policy Papers

“The Economic Freedom Act: Economic and Fiscal Effects,” with Karen Campbell, *The Heritage Foundation*, 2010

“The Demographic and Dynamic Effects of the Wyden-Gregg Tax Reform Proposal,” with Karen Campbell, *The Heritage Foundation*, 2010

“Adding Insult to Injury: The Baucus Health Plan Imposes New Taxes on the Sick,” with Robert Book and Paul Winfree, *The Heritage Foundation*, 2009

“The Baucus Individual Health Insurance Mandate: Taxing Low-Income and Moderate-Income Workers,” with Robert Book and Paul Winfree, *The Heritage Foundation*, 2009

“The "American Option" Is Good for Small Business,” *The Heritage Foundation*, 2009

“Sustainable Economic Stimulus: Repeal Capital Gains and Dividend Taxes”, with Karen Campbell, *The Heritage Foundation*, 2009

“Stimulus Plan Should Include Pro-Growth Tax Relief for Families in Every State,” with Shanea J. Watkins, *The Heritage Foundation*, 2009

“How the Obama and McCain Tax Plans Will Affect America's Small Businesses,” *The Heritage Foundation*, 2008

“Coming Together on Tax Simplification: AMT and Extending the Tax Cuts,” *The Heritage Foundation*, 2008

“Economic Effects of Increasing the Tax Rates on Capital Gains and Dividends,” with William W. Beach and Rea S. Hederman, Jr., *The Heritage Foundation*, 2008

“The End of Pro-Growth Tax Policy: How the Rangel Tax Bill Could Affect the U.S. Economy,” with William W. Beach, *The Heritage Foundation*, 2008

“More H-1B Visas, More American Jobs, A Better Economy,” with James Sherk, *The Heritage Foundation*, 2008

“Free-Market Philanthropy: The Social Aspect of Entrepreneurship,” with James Sherk and Paul Winfree, *The Heritage Foundation*, 2008

“The Obama and McCain Tax Plans: How Do They Compare?,” with William W. Beach, Karen Campbell and Rea S. Hederman, Jr., *The Heritage Foundation*, 2008

Book Reviews

"The Cambridge Companion to Hayek," *Review of Political Economy*, vol. 22(1), 2010

Unpublished Papers

“Prosperity and the Welfare State: The Effect of Benefit Generosity and Wage Coordination on Absolute Poverty and Prosperity in Cross-National Perspective,” *Luxembourg Income Study Working*

Paper No. 424, 2005

“Comparing EITC and Minimum Wage - Comparing the Impact of the EITC and the Minimum Wage on Poverty and Employment,” for *The Rio Grande Foundation*, 2005

“The Dynamic Consequences of Public Employment : An Agent Based Approach,” 2007 and (revised) 2008.

“Socialism as Impossible: A Reassessment of Theory in Light of the Available Evidence”, 2008

“The Seed Theory of Economic Calculation: Lange Revisited,” 2008

“Flexible Pricing and the Market Process,” 2008

“Economic Calculation and Surplus Extraction: A Reply to Crampton and Farrant,” 2008

“Rent-seeking, Centralization and Emergence: An Evolutionary Approach to Choice in Public and Private Sectors,” 2009

“The Internal and The External Freedoms: The Scope of Hayek’s Complex Society,” 2009

“Utopian Totalitarianism in Theory and Practice,” 2010

“Welfare in the Austrian Marketplace: Bridging Austrian and Market Socialist Economics,” 2010

“Socialism and the Calculation Problem in the Development of Modern Economics,” 2010

Referee

Journal of Economic Interaction and Coordination, Review of Austrian Economics, Advances in Austrian Economics, Journal of Economic Behavior and Organization

Employment

Heritage Foundation

Center for Data Analysis

Research Programmer

September 2007 - current

In the Center for Data Analysis at The Heritage Foundation, I am responsible for running, maintaining, and developing new features for a microeconomic individual income tax model based on IRS Statistics of Income and Census databases, and analyzing and presenting results. I forecast revenue, distribution and income effects of tax policy. Using the model, I conduct original policy analysis and also provide data to others for reports. I write background studies, web memos, web-log posts and other original research analysis. I am also responsible for working with other CDA staff to design and create new analytical economic models. I am designing and developing a dynamic entrepreneurship model based upon an agent based model I developed independently. The model will offer both a learning-based evolutionary approach, as well as traditional equilibrium simulation, so that various assumptions can be compared and analyzed. In addition, I am encouraged to work on other policy projects at the Foundation, and on independent projects, and to attend conferences and seminars. One such project was the completion of my book *Rediscovering Fire*.

Forum One Communications

Web Programmer

September 2006-September 2007

Rio Grande Foundation

Policy Analyst

May 2006 – Sept. 2006

National Center for Genome Resources

Software Engineer

April 2002-Dec 2002

Thinking Pictures

Lead Perl Engineer

June 2001 -March 2002

ActiveBuddy / Colloquis

Software Engineer

Sept 2000 – May 2001

Freelance Software Development Work

Software Developer

1998-2000

Independent Projects**Agent Based Economic Model**

September 2005 - Current (basis for dynamic entrepreneurial model for The Heritage Foundation)

Agent-based economic model of the market as a complex system.

- Designed and developed unique complex systems model of the market economy
- Created auction and competition agent-based pricing schemes
- Modeled responsive government employment program
- Included learning strategies for firms to enhance decision-making
- Created semantic-driven cost and preference logic
- Used for economic policy analysis

Models private firms, consumers and public firms acting as employer of last resort; wage and product markets with single or multiple products using semantic-based preferences and economies of scale; welfare program, price controls, immigration, wholesale and retail sales. Presented at the International Conference on Economic Science with Heterogeneous Interacting Agents.