

**Guinevere Liberty Nell**  
**Research Programmer & Policy Analyst**

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## Education

University of Warwick, MA by Research in Soviet History, 2011  
Coursework toward bachelors degree in biochemistry and economics (2003-2009)

## Published Books

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

## Published Papers

“Rent-Seeking, Hierarchy and the Centralization: Why the Soviet Union Collapsed So Fast and What it Means for Market Economies”, *Comparative Economic Studies*, advance online publication, June 30, 2011; doi:10.1057/ces.2011.17

“Bridging Market Socialist and Austrian Economics,” *Challenge Magazine*, Vol. 54 (4), 2011

"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

“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

## Published Book Reviews

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

## Paper Presentations

“Welfare in the Austrian Marketplace: Bridging Austrian and Market Socialist Economics,” *European Society for the History of Economic Thought*, May 2011

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

“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

## Unpublished Works

“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

“Spontaneous Order and the Utopian Collective “(Masters dissertation)

“Forging Common Ground: The Basic Income Guarantee and Austrian and Market Socialist Theory” (a Palgrave-MacMillan Basic Income Guarantee collection, which I will edit)

“Free Society in Austrian and Market Socialist Theory: A Collection on Economic Organization” (another collection I am working on)

## 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 Current Population Survey U.S. 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 am also responsible for maintaining and updating the tax model and working with other CDA staff to design and create new analytical economic models, including a dynamic entrepreneurship model based upon an agent based model I developed independently. In addition, I am encouraged to work on other policy projects at the Foundation, on independent projects, and to attend conferences and seminars. One independent project was the completion of my book *Rediscovering Fire*.

## **Forum One Communications**

*Web Programmer*  
September 2006-September 2007

## **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
- 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.*