

William L. Goffe

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**Citizenship:** USA

**Age:** 60

### **Graduate Studies**

School: University of North Carolina at Chapel Hill

Fields: Monetary (major) and Econometrics (minor)

Dissertation: *A Numerical Dynamic General Equilibrium Business Cycle Model*

PhD Awarded: May, 1990

### **Pre-Doctoral Studies**

BA in Mathematics and Economics (double major), 1981

University of Virginia, Charlottesville, VA

### **Journal Publications**

“Beyond the Flipped Class: The Impact of Research-Based Teaching Methods in a Macroeconomics Principles Class” (with Austin Boyle), *American Economic Review Papers and Proceedings*, vol. 108, May 2018.

“A Survey of Principles Instructors: Why Lecture Prevails” (with David Kauper), *Journal of Economic Education*, vol. 45, no. 3, October, 2014

“Multi-core CPUs, Clusters, and Grid Computing: a Tutorial” (with Michael Creel), *Computational Economics*, vol. 32, no. 4, November 2008.

“Teaching with Technology: May You Live in Interesting Times,” *Journal of Economic Education*, (with Kim Sosin), vol. 36, no. 3, Summer 2005

“The Internet and the American Economic Association - A Set of Proposals,” *Social Science Computer Review*, vol. 22, no. 4, Winter 2004

“Display and Interactive Languages for the Internet: HTML, PDF, and Java,” (with Dirk Eddelbuettel), *Computational Economics*, vol. 14, no. 1, 1999, pp. 89-107.

“The Future Information Infrastructure in Economics,” (with Robert P. Parks) *The Journal of Economic Perspectives*; vol. 11, no. 3, 1997, pp. 75-94.

“SIMANN: A Global Optimization Algorithm using Simulated Annealing,” *Studies in Nonlinear Dynamics and Econometrics*, vol. 1, no. 3, 1996.

“Computer Network Resources for Economists” *Journal of Economic Perspectives*, vol. 8 no. 3, 1994, pp. 97-119.

“Global Optimization of Statistical Functions with Simulated Annealing” (with Gary Ferrier and John Rogers) *Journal of Econometrics*, vol. 60, no. 1/2, Jan./Feb. 1994, pp. 65-99.

“A User's Guide to the Numerical Solution of Two-Point Boundary Value Problems Arising in Continuous Time Dynamic Economic Models” (Technical Note) *Computational Economics*, vol. 6, 1993, pp. 249-55.

“Simulated Annealing: An Initial Application in Econometrics” (with Gary Ferrier and John Rogers) *Computer Science in Economics and Management* vol. 5, no.2, 1992.

### **Other Publications**

“Submissions to the Online Section of the Journal of Economic Education,” *Journal of Economic Education*, vol. 45, no. 2, April, 2014.

“Journals and Beyond: Publishing Economics Education Research,” (with Peter Davies), in *International Handbook on Teaching and Learning Economics*, KimMarie McGoldrick and Gail Hoyt, editors, Edward Elgar, 2011.

“Using the Internet and Computer Technology to Teach Economics,” with Kim Sosin, in *Teaching Economics to Undergraduates: More Alternatives to Chalk and Talk.*, William E. Becker, Michael Watts, and Suzanne R. Becker, editors, 2006.

“Resources for Economists on the Internet,” *Journal of Economic Education*, vol. 31, no. 1 (Winter), 2000, p. 8.

### **Book Reviews**

*The Economics of Electronic Commerce*, Soon-Yong Choi, Dale O. Stahl, and Andrew B. Whinston, *Journal of Economic Literature*, vol. XXXVIII, March 2000, pp. 151-2.

*Winners, Losers and Microsoft, revised edition*, Stan J. Liebowitz and Stephen E. Margolis, Oakland: The Independent Institute, 2001; EH.Net, 7/2001EH.Net, 7/2001.

### **Proceedings**

“Wavelets in Macroeconomics: An Introduction” Ch. 8., pp. 137-50, *Computational Techniques for Econometrics and Economic Analysis*, David A. Belsley, ed., Kluwer Academic Publishers: Dordrecht, 1994.

## Working Papers

“Preconceptions of Principles Students” (with Douglas Bice, Elisabeth S. Curtis, Wayne Geerling, Adam Hoffer, Solina Lindahl, Mark Maier, Brain Peterson, and Wendy Stock)

“Non-Cognitive Skills and the Performance of Macro Principles Students” (with Deborah Goins)

“Initial Misconceptions in a Macro Principles Class”

“Next Steps in the Information Infrastructure in Economics”

“Redesigning a Large Macro Principles Course Using Bain's *What the Best College Teachers Do*”

“Valuation of Non-Market Goods Using Computer-Assisted Surveys: a Comparison of Data Quality from Internet and RDD Samples” (with Mark Dickie and Shelby Gerking)

“Visualizing Multi-Dimensional Functions in Economics”

“A Toolkit for Optimizing Functions in Economics”

## Work in Progress

“Resources for Economists on the Internet,” <http://rfe.org>. The current issue lists more than 2,000 resources of interest to economists. Its companion is the “Economics Search Engine,” <http://ese.rfe.org>. The American Economic Association supports them and Adrienne Mullins is the editorial assistant.

## Editorial

Associate Editor (Online Section), *Journal of Economic Education*

Associate Editor, *Computational Economics*.

Editorial Board Member of *Netnomics*

## External Service

Secretary-Treasurer of the Society for Computational Economics

## Awards

University Excellence in Teaching Award, 1998 (five awarded annually by the University of Southern Mississippi).

Louis K. Brandt Faculty Publication Award, 1995 (awarded bi-annually in the College of Business Administration, Univ. of Southern Mississippi; shared with two other recipients).

Teaching Fellow (as graduate student) 1984-85.

## Software

Licensed SA, Fortran code for simulated annealing, to Richard Quandt of Princeton University for resale in his GQOPT statistical optimization package.

Simulated annealing code placed in Netlib and Statlib, international on-line libraries of numerical and

statistical software.

### **Textbook Supplement**

*The Economist's Guide to the Internet*, Houghton Mifflin, 1995.

### **Grants**

“Study Smart: Using Formative Assessments to Create Personalized Study Materials,” awarded by Penn State’s Center for Online Innovation in Learning, (2015). \$40,000.

Received 50 hours of CPU time on the North Carolina Supercomputer Center's Cray Y-MP in a peer-reviewed process. (1992)

### **Workshops Attended**

“Team-Based Learning Academy,” University of Albany, August 5-6, 2013

“Institute for Pedagogy in the Liberal Arts,” Oxford College of Emory University, Oxford Georgia, May 14-15 (attend first half), 2013

“Developing Modules for Teaching Economics,” Science Education Resources Center (SERC), Carleton College, Northfield, MN October, 2009 (participated in developing the "Classroom Response Systems" module)

AEA-NCEE-Kazanjan "Active Learning Workshop," September, 1996, Chapel Hill, NC (slightly abbreviated due to Hurricane Fran)

### **Presentations**

Economics Teaching Workshop, Economics Department, University of Kentucky, April 13, 2019  
“How to Use Results from the Science of Learning in Your Classroom”

Conference on Teaching and Research in Economic Education (CTREE), San Antonio, May 30, 2018  
“Creating and Using Standard Assessments in Economics: The TUCE and Beyond” Panel Discussion; with Douglas McKee, George Orlov, and Parama Chaudhury

Allied Social Science Association, Philadelphia, January 6, 2018  
“Is it Time to Change the Principles Curriculum?” Panel Discussion; with Tyler Cowen, Jodi Beggs (substituting for Jennifer Imazeki) and Jose Vazquez

Allied Social Science Association, Philadelphia, January 5, 2018  
“Beyond the Flipped Class: the Impact of Research-based Teaching Methods in a Macroeconomics Principles Class” (with Austin Boyle)

St. Louis Fed Professors Conference, November 3, 2017  
“Research-Based Methods for Teaching Macro Principles”

College of Business Administration, University of Nebraska at Omaha, October 21, 2017  
“Cognitive Science and Tested Teaching Methods”

21st Annual University of Kentucky Economics Teaching Workshop, April 2, 2016  
“Importing STEM Evidence-Based Teaching Methods into a Large Macro Principles Course” (poster)

Allied Social Science Association, San Francisco, January 4, 2016  
“Importing STEM Evidence-Based Teaching Methods into a Large Macro Principles Course” (poster)

Schreyer Conference: Transformative Teaching and Learning (Penn State), October 20, 2015  
“Study Smart: Analytics for All to Improve Learning Outcomes” (with T.K. Lee and Lindsey Ottaviani)

Conference on Teaching and Research in Economic Education (CTREE), Minneapolis, May 28, 2015  
“Why Active Learning Works and How to Improve It: Using Findings from the Learning Sciences to Improve Teaching Practices and Student Outcomes” (workshop) (with Scott P. Simkins)

Teaching and Learning with Technology Symposium (Penn State), March 21, 2015  
“Study Smart: Generation of Study Plans for Individual Students,” (with T.K. Lee)

Eastern Economic Association, New York, February 27, 2015  
“Preconceptions of Principles Students” (with Douglas Bice, Elisabeth S. Curtis, Wayne Geerling, Adam Hoffer, Solina Lindahl, Mark Maier, Brain Peterson, and Wendy Stock)

Allied Social Science Association, Boston, January 3, 2015  
“Preconceptions of Principles Students” (with Douglas Bice, Elisabeth S. Curtis, Wayne Geerling, Adam Hoffer, Solina Lindahl, Mark Maier, Brain Peterson, and Wendy Stock)

Southern Economic Association, Atlanta, November 22, 2014  
“Preconceptions of Principles Students” (with Douglas Bice, Elisabeth S. Curtis, Wayne Geerling, Adam Hoffer, Solina Lindahl, Mark Maier, Brain Peterson, and Wendy Stock)

Conference on Teaching and Research on Economic Education (CTREE), Washington, May 30, 2014  
“Non-Cognitive Skills and the Performance of Macro Principles Students” (with Deborah Goins)

Conference on Teaching and Research on Economic Education (CTREE), Washington, May 28, 2014  
“Preconceptions of Principles Students” (with Douglas Bice, Elisabeth S. Curtis, Wayne Geerling, Adam Hoffer, Solina Lindahl, Mark Maier, Brain Peterson, and Wendy Stock)

Center for Excellence in Science Education, Eberly College of Science, Penn State University, April 7, 2014, “Team-Based Learning: An Introduction”

Allied Social Science Association, Philadelphia, January 4, 2014  
“Non-Cognitive Skills and the Performance of Macro Principles Students” (with Deborah Goins)

Southern Economic Association, Tampa, November 23, 2014  
“Non-Cognitive Skills and the Performance of Macro Principles Students” (with Deborah Goins)

Conference on Teaching and Research on Economic Education (CTREE), Chicago, May 31, 2013  
“A Survey of Principles Instructors: Why Lecture Prevails”

Conference on Teaching and Research on Economic Education (CTREE), Chicago, May 29, 2013  
“Initial Misconceptions in Macro Principles Classes”

Allied Social Science Association, San Diego, January 8, 2013  
“A Survey of Principles Instructors: Why Lecture Prevails” (with David Kauper)

Southern Economic Association, New Orleans, November 16, 2012  
“A Survey of Principles Instructors: Why Lecture Prevails”

National Conference on Teaching Economics, American Economic Association, Boston, June 1, 2012  
“An Interactive Workshop for Teaching Large College Classes,”

SUNY Oswego Center for Excellence in Learning and Teaching, November 8, 2011  
“Pitfalls and Joys of Clickers in the Classroom”

SUNY Oswego Center for Excellence in Learning and Teaching, October, 2011  
“Alternatives to Lecture”

National Conference on Teaching Economics, Palo Alto, California, June 1, 2011  
“Intentional Use of Personal Response Systems (Clickers) to Address Student Misconceptions, Close Learning Gaps, and Improve Student Learning – Workshop”  
(with Scott P. Simkins)

National Conference on Teaching Economics, Palo Alto, California, June 1, 2011  
“An Introduction to Team-Based Learning – Panel Discussion”  
(with Jennifer Imazeki, Molly Espey, and Paul L. Hettler)

SUNY Oswego Spring Breakout, May 19, 2011  
“What Does Peer-Reviewed Research Tell Us About Improving Learning?” (repeat)

SUNY Oswego Winter Breakout, January 21, 2011  
“What Does Peer-Reviewed Research Tell Us About Improving Learning?”

SUNY Oswego Winter Breakout, January 21, 2011  
“Best Practices in Clicker Usage”

Penn State University Economics Department Teaching Seminar, April 30, 2010  
“Initial Misconceptions in a Macro Principles Class

Allied Social Science Association, Atlanta, January 4, 2010  
“Initial Misconceptions in a Macro Principles Class”

Allied Social Science Association, Atlanta, January 4, 2010  
“Team-Based Learning in the Economics Classroom” (poster)

SUNY Oswego Center for Excellence in Learning and Teaching, October 9, 2009  
“Using Clickers in the classroom: How might they be used to increase student learning?” (repeat)

SUNY Oswego Center for Excellence in Learning and Teaching, October 16, 2009  
“Team-Based Learning in the Economics Classroom”

SUNY Oswego Center for Excellence in Learning and Teaching, April 17, 2009  
“Using Clickers in the Classroom: How Might They be Used to Increase Student Learning?”

Texas Christian University, March 13, 2009  
“My Evolution as a Teacher”

University of Kansas Economics Department Seminar, March 28, 2008  
“Next Steps in the Information Infrastructure in Economics”  
Allied Social Science Association, New Orleans, January, 2008  
“Redesigning a Large Macro Principles Course Using Bain's *What the Best College Teachers Do*”

Third International Conference on e-Social Science, Ann Arbor, MI, October, 2007  
“Next Steps in the Information Infrastructure in Economics”

5<sup>th</sup> Annual Teaching Economics Workshop, Wilmington, NC, October, 2005  
“Making Technology Work for You and Your Students: Simulations, Security, Feedback, and Detecting Plagiarism”

West Virginia Economics Department Seminar, September 23, 2005  
“Multi-core CPUs, Clusters, and Grid Computing: a Tutorial”

11<sup>th</sup> International Conference on Computing in Economics and Finance (Washington, DC, June 2005)  
“Multi-core CPUs, Clusters, and Grid Computing: a Tutorial” (with Michael Creel)

8<sup>th</sup> International Conference on Computing in Economics and Finance (Aix, France), June, 2002  
“Metadata Standards for Economics Web Sites”

Midwest Economics Association, March, 2002  
“What’s on the Internet for Teaching Economics,” (hour long presentation)

American Economic Association Annual Meeting, January 2002  
“What’s on the Internet for Economists: An Update” (session long presentation with Robert P. Parks of Washington University and George Greenwade of VMI)

Southern Economic Association, November 2001  
“What’s on the Internet for Economists: An Update,” (session long presentation)

Hamilton College, October 2001  
“Using the Internet for Economics Teaching,” Hamilton College

Midwest Economics Association Annual Meeting, March, 2001  
“Using the Internet for Teaching,” (a session-long presentation with Robert P. Parks)

American Economic Association Annual Meeting, January, 2001  
“Web Standards -- Metadata for Economics Internet Sites” (organized an invitation-only session)

American Economic Association Annual Meeting, January, 2001  
“What's on the Internet for Economists: Another Update” (a session-long presentation with Robert P. Parks and George Greenwade)

Technology and Collaboration in the Classroom, Denison University, December, 2000  
“Making the Internet Work for You” (an hour long talk with Robert P. Parks)

Southern Economic Association Annual Meeting, November, 2000  
“What’s on the Internet for Economists: Another Update” (a session-long presentation with Robert P. Parks and George Greenwade)

Society for Computational Economics Annual Meeting (Barcelona), July, 2000  
“Visualizing Multi-Dimensional Functions in Economics?”

Western Economic Association, July, 2000  
What’s on the Internet for Economists: Another Update (a session-long presentation with Robert P. Parks)

American Economic Association Annual Meeting, January, 2000  
“What's on the Internet for Economists: Another Update” (a session-long presentation with Robert P. Parks and George Greenwade)

Southern Economic Association Annual Meeting, November, 1999 “What’s on the Internet for Economists: Another Update” (a session-long presentation with Robert P. Parks and George Greenwade)

Academy of Economics and Finance Annual Meeting, February, 1999  
“Teacher Training Program — “Technology Training Program: Advanced Topics”

American Economic Association Annual Meeting, January, 1999  
“What's on the Internet for Economists: A Further Demonstration and Update” (a session-long presentation with Robert P. Parks and George Greenwade)

Southern Economic Association Annual Meeting, November, 1998  
“What’s on the Internet for Economists: A Further Demonstration and Update” (a session-long presentation with Robert P. Parks and George Greenwade)

Hungarian Central Bank, Budapest, June, 1998  
“The Internet for Economists” (with Robert P. Parks)

World Bank Human Development Conference, Washington D.C., March 1998  
“The Internet for International Economists” (with Robert P. Parks)



American Economic Association Annual Meeting, January, 1998  
"The Internet for Economists: A Further Update" (3 session-long presentations with Robert P. Parks)

American Economic Association Annual Meeting, January, 1998  
"The Economics Profession and the Internet: What Roles Should the AEA and Others Take?" (a roundtable co-organized with Robert P. Parks)

Southern Economic Association Annual Meeting, November, 1997,  
"The Internet for Economists — A Further Update" (a session-long presentation with Robert P. Parks and George Greenwade)

Federal Reserve Bank of St. Louis, November 1997  
"The Internet for Economists" (with Robert P. Parks)

Society for Computational Economics Annual Conference, Stanford, CA, July, 1997  
"A Toolkit for Optimizing Functions in Economics,"

American Economic Association Annual Meeting, January, 1997  
"What's on the Internet for Economists: Another Update" (3 session-long presentations with Robert P. Parks and George Greenwade)

Southern Economic Association Annual Meeting, November, 1996  
"What's on the Internet for Economists: Another Update" (a session-long presentation with Robert P. Parks and George Greenwade)

Central Intelligence Agency, November, 1996  
"What's on the Internet for CIA Economists" (with Robert P. Parks)

ACS-Mellon Foundation Pilot Project, Centre College, August, 1996  
"The Internet for Economists (with a Teaching Emphasis)" (with Robert P. Parks)

Society for Computational Economics Annual Meeting, Geneva, June, 1996,  
"The Future Information Infrastructure in Economics" (with Robert P. Parks); Plenary Session

Economics Department, University of Bonn, June, 1996  
"Resources for Economists on the Internet," June, 1996 (with Robert P. Parks)

Economics Department, University of California, Berkeley January, 1996  
"What's on the Internet for Economists: A Demonstration" (with Robert P. Parks)

American Economic Association Meeting, January, 1996  
"What's on the Internet for Economists: A Demonstration" (3 session-long presentations with Robert P. Parks and George Greenwade)

Southern Economic Association Meeting, November 1995  
"What's on the Internet for Economists" (session-long presentation with Robert P. Parks and George Greenwade)

Society for Computational Economics Meeting, May, 1995  
"Resources for Computational Economists on the Internet"

Bureau of Labor Statistics, April, 1995  
"What's on the Internet for Statisticians: A Demonstration" (2 two hour sessions with Robert P. Parks and George Greenwade)

West Virginia University, April, 1995  
"What's on the Internet for Economists: A Demonstration"

American Economic Association Meeting, January, 1995  
"What's on the Internet for Economists: A Demonstration" (3 session-long presentations with Robert P. Parks and George Greenwade)

American Finance Association Meeting, January, 1995  
"What's on the Internet for Financial Economists: A Demonstration and Roundtable Discussion" (with Robert P. Parks, George Greenwade, Wayne Marr, and Michael Jensen).

American Economic Association Meeting, January, 1995  
"Supporting Computer Aided Instruction with the Internet" (invited paper for the Computer Aided Instruction session)

Southern Economic Association Meeting, November 1994  
"What's on the Internet for Economists" (session-long presentation with Robert P. Parks)

IFAC Workshop on Computing in Economics (Amsterdam), June 1994  
"The Structure of Neural Networks"

Missouri Valley Economic Association Meeting, February, 1994  
"The Internet for Economists" (session-long presentation with Robert P. Parks and George Greenwade)

Midsouth Academy of Economics and Finance Meeting, February, 1994  
"Computer Network Resources for Economists"

Drew University, January, 1994  
"The Internet for Social Scientists"

Southern Economic Association Meeting, November 1993  
"Wavelets in Macroeconomics: An Introduction"

Supercomputing in Economics, Free University of Brussels, Brussels, Belgium, June, 1993  
"Global Optimization of Statistical Functions with Simulated Annealing" (invited talk)

University of North Carolina at Chapel Hill Economics Department Macroeconomics Seminar, May, 1993 "Wavelets in Macroeconomics: An Introduction"

Society for Economics Dynamics and Control Meeting, June, 1992

"Wavelets in Macroeconomics"

Southern Economic Association Meeting, November 1990

"An Alternative Strategy for Testing Forward Foreign Exchange Market Efficiency"

Society for Economics Dynamics and Control Meeting, 1990

"Global Optimization of Statistical Functions"

Southern Economic Association Meeting, November 1989

"Global Maximization of Likelihood Functions"

Southern Economic Association Meeting, November 1987

"An Intertemporal Model of the Firm with Financing"

### **Teaching, Research, and Other Experience**

2018: Associate Teaching Professor at Penn State University (title change across the institution)

2012: Senior Lecturer at Penn State University

Teaching Macro Principles and Intermediate Macro

2006: Full Professor at SUNY Oswego

Taught Macro Principles, Intermediate Macro, Money and Banking, and Financial Markets

2002: Tenured at SUNY Oswego

2000: Associate Professor at SUNY Oswego

1999: Tenured at the University of Southern Mississippi

Taught Macro & Micro Principles, Money and Public Policy, and Statistics

1996: Associate Professor at the University of Southern Mississippi

(untenured due to insufficient time in state)

1993: Assistant Professor at the University of Southern Mississippi

1992: Visiting Assistant Professor at the University of North Carolina at Wilmington

Taught Macro Principles, Money and Capital Markets

1990: Visiting Assistant Professor at Southern Methodist University

Taught Macro Principles, Money and Banking, Computing for Economists (an Applied MA course), and a senior topics course in macro

1986: Assistant Professor at the University of Texas at Arlington

Taught Money and Banking, Business Cycles (Senior Level), Principles of Macro (Intermediate, MBA, and MA)

1985: Summer Intern at the Board of Governors of the Federal Reserve System

1981: Lecturer, Teaching Assistant and Research Assistant during graduate school at the University of North Carolina at Chapel Hill

## References

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