

## Curriculum Vita

### Steven R. Miller

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Michigan State University  
East Lansing, MI 48824  
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#### Educational Background

Ph.D., Economics, Oklahoma State University, July, 2005.

B.A., Economics, Oklahoma State University, April, 1995.

#### Dissertation

*A Dynamically-Calibrated Regional Forecasting and Simulation Model: A Maximum Entropy Approach.*

Committee Chair: Professor Dan S. Rickman, OG&E Chair in Regional Economic Analysis.

#### Fields

Urban/Regional Economics, Econometrics, Monetary Economics.

#### Awards and Honors

Outstanding Manuscript: Southwest Business Symposium, 2006

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Duck Woo Nam Distinguished Graduate Fellowship: 2004

#### Research Experience

Director: October 2006 – Current

Center for Economic Analysis: Michigan State University

- Interact with departmental faculty and non-university stakeholders to bolstering the department's outreach efforts and contributing to the economic content of the Michigan Agriculture Experiment Station and Michigan State University Extension grant writing
- Coordinate the center's marketing efforts through web design and corporate identity
- Interact with advisory groups in setting center's goals and objectives and monitor and report progress of center activity

*Regional Economic Analyst:* July 2005 – September 2006

The Center for Economic Development and Business Research: Wichita State University

- Develop and maintain policy simulation software and perform impact analysis for local area IRB, TIF, and Business Tax Abatement development incentives
- Maintain relationships and joint projects with local area development groups
- Develop and maintain state and MSA level structural forecasting models

*Research Assistant:* September 1998 – May 2004

Dan S. Rickman: Oklahoma State University

- Program and maintain regional econometric model, create output tables and forecasts, and collect input data on an ongoing basis.

*Document Editor:* August 2003 – May 2004

Dan S. Rickman, Ron L. Moomaw, *Review of Regional Studies.*

- Provide proofing, editing, and formatting of peer reviewed journal articles.

*Research Assistant: August 2003 – December 2003*

Mark Snead: Oklahoma State University

Funded Research Project: Oklahoma Department of Human Services

- Author report outlining the characteristics of licensed countywide child care facilities for all counties in Oklahoma

*Research Assistant: May 2003 – August 2003*

Dan S. Rickman: Oklahoma State University

Mark D. Partridge: Cloud State University

- Develop macros and programs to analyze and process regional, MSA, and county data. Develop programs to model and test spatial autocorrelation.

*Research Assistant: June 2002 – December 2002*

Dan S. Rickman and Mark C. Snead: Oklahoma State University

Funded Research Project: Oklahoma Department of Human Services

- State comparison of state implemented IV-D programs for child support collections. Author analysis of common characteristics of successful statewide programs

*Research Assistant: September 2001 - December 2001*

Mark C. Snead and Tim L. Krehbiel, Oklahoma State University

Funded Research Project: Oklahoma Department of Treasury

- Assist in development of a dynamic portfolio optimization method and write programs for analysis and application by Oklahoma state teacher retirement fund administrators.

### **Articles in Trade Journals**

"Exploring the Determinants of Entrepreneurial Culture", 2010 with Scott Loveridge, Thasanee Santimanon, Submitted: *Papers in Regional Science*

"Improving Measurement of Program Outcomes Using Factor Analysis of EFNEP Behavior Checklists", 2010 with Abdul Abdulkadri, Sharon Hoerr, Christine Waltersdorf, Margaret LaShore, Karen Martin and Cathy Newkirk, Submitted: *Journal of Extension*.

"Spatial and Sectoral Linkages in Regional Models: A Bayesian Vector Autoregression Evaluation", 2009, with Dan Rickman and Russell McKenzie. *Papers in Regional Science*. 88(1) 29-41

"An Evaluation of Alternative Strategies for Incorporating Inter-Industry Relationships into a Regional Employment Forecasting Model," with Dan S. Rickman, 2002. *The Review of Regional Studies*. 32 (1):133-147.

"Systems-Estimation Using Generalized Cross-Entropy", 2005 *Proceedings of the Southwest Business Symposium*.

"Further Insights on Urban Agglomeration Effects: A Regional Stochastic Frontier Model", with Susanne Rassouli-Currier, 2005. *Central Business Review* 24 (1-2): 32-37.

"An Inquiry into State Competitive Advantage: An Application of Shift-Share Analysis", 2006 *Proceedings of the Southwest Business Symposium*.

"Oklahoma: If We Aren't High-Tech, Where Are Our Competitive Advantages?" With Tim Ireland and Mark C. Snead, 2006. *Oklahoma Business Bulletin*, 74 (1): 11-20.

## Presentations

- Building State and Local Forecasting Models*, Institute of Public Utilities: Workshop Forecasting for Regulators, East Lansing, MI, July 8, 2010
- An Economic Forecasting Model of Sub-regions of Michigan*, Michigan Forum on Economic Regulatory Policy, Institute of Public Utilities: Michigan State University, East Lansing, MI, January 29, 2010
- REMI Impact Modeling for Utility Policy*, Michigan Department of Natural Resources and Environment, Lansing, MI, January 26, 2010
- Exploring the Determinants of Entrepreneurial Culture*, with Scott Loveridge and Thasanee Satimanon, at the 56th North American Regional Science Association International Conference, San Francisco, CA, November 18-21, 2009.
- Tracking the Economics of Michigan's Latino Population*, with Rubén O. Martinez, at the 20<sup>th</sup> Anniversary Celebration Conference of the Latino/A Communities in the Midwest, East Lansing, MI. November 5-7, 2009.
- Trends in the Michigan Economy*, Michigan Climate Action Council, Lansing, MI, October 30, 2009
- Towards a Measure of Entrepreneurial Culture*, with Scott Loveridge and Thasanee Satimanon, at the 46<sup>th</sup> Annual Meeting of the Missouri Valley Economic Association, Kansas City, MO, October 24<sup>th</sup>, 2009.
- Tax Exempt Tribal Retail Sales: A Comparative Static CGE Analysis of the Municipal Level Impact*, with Mark C. Snead, at the Southern Regional Science Annual Meeting, March 2008
- Price Competition across Regional and Hub Airports: Preliminary Look at the Role of Price*, at the Southern Regional Science Annual Meeting, March 2008
- Tax Exempt Tribal Retail Sales: A Comparative Static CGE Analysis of the Municipal Level Impact*, with Mark C. Snead, at the Missouri Valley Economics Association, October 2007
- An Inquiry into State Competitive Advantage: Determining the Causes of the Shift Component in Shift-share Analysis*, at the 45<sup>th</sup> Southern Regional Science Association Meeting, March 2007
- Using Spatial and Economic Base Information in Bayesian Vector Autoregression Forecasting of Metropolitan Employment*, Presented by Dan Rickman at the Regional Science Association International, November 2006
- Average Airport Fares Matter: An Inquiry into the Impacts of Price Competition across Airports*, Presented at the Missouri Valley Economic Association, October 2006
- An Inquiry into State Competitive Advantage: An Application of Shift-Share Analysis*, Presented at the Southwest Business Symposium, March 2006.
- An Inquiry into State Competitive Advantage: An Application of Shift-Share Analysis*, Presented at the Southwestern Society of Economists, March 2006.
- 2005-2006 Kansas State Economic Outlook*: Presented at the Regional Economic Roundtable: Federal Reserve Bank of Kansas City, November 2005
- Recovering Suppressed Data Using Cross-Entropy*: Presented at the Missouri Valley Economic Association, October 2005
- Systems Estimation Using Generalized Cross Entropy*. Presented at the Southwest Business Symposium, March 2005.
- The Choice of Estimation Techniques and the Effect on MSA's Efficiency*. Presented by Rassouli-Currier at the Southwest Business Symposium, March 2005.
- Systems Estimation Using Generalized Cross Entropy*. Presented at the Missouri Valley Economic Association, October 2004.

- A Data Envelopment Analysis Approach to MSAs' Efficiency*, with Susanne Rassouli-Currier. Presented by Rassouli-Currier at the *Missouri Valley Economic Association*, October 2004.
- Regional Aggregate Forecasting Models*. Presented at the *Southwest Business Symposium*, April 2004.
- Regional Bayesian Forecasting and Forecast Aggregation Bias*. Presented at the *Missouri Valley Economic Association*, February 2004.
- Regional Stochastic Frontier Models: Further Insights Of Regional Agglomeration Effects*, with Susanne Rassouli-Currier. Presented by Rassouli-Currier at the *Southwest Business Symposium*, April 2003.
- Regional Stochastic Frontier Models: Further Insights Of Regional Agglomeration Effects*, with Susanne Rassouli-Currier. Presented at the *Missouri Valley Economic Association*, February 2003.
- Calculating the Dynamic Relationship Between Basic and Non-Basic Employment*, with Russell W. McKenzie. Presented at the *Missouri Valley Economic Association*, February 2002.
- An Evaluation of Alternative Strategies for Incorporating Inter-Industry Relationships into a Regional Employment Forecasting Model*. Presented at the *Missouri Valley Economic Association*, February 2001.

### **Working Papers and Monographs**

- The Macroeconomic Impact of the Michigan Climate Action Council Climate Action Plan on the State's Economy*, with Dan Wei and Adam Rose: 2010
- Bayesian Methods of Imposing Structure to Regional Vector Autoregression Models: Spatial and Industry Linkages*: 2010
- The Economic Impact of Michigan Equine Sector*, with Chris Wolf
- Improving Measurement of Program Outcomes Using Factor Analysis of EFNEP Behavior Checklists, with Abdul Abdulkadri, Sharon Hoerr, Christine Waltersdorf, Margaret LaShore, Karen Martin and Cathy Newkirk: 2010
- Assessing the Economic Impact of Community Events: 2007*
- Using Spatial and Economic Base Information in Bayesian Vector Autoregression Forecasting of Metropolitan Employment*: with Dan S. Rickman and Russell McKenzie
- Dynamic Economic Base Model of Inter-City Growth*: 2006 with Russell McKenzie
- Sources of State Competitive Advantage: A Shift-Share Approach*: 2006 with Russell McKenzie, submitted to the Review of Regional Science
- Sources of Kansas's Slow Employment Growth: An Inquiry into Sectoral Composition*, Center for Economic Development and Business Research, December 2005
- "*Oklahoma City Metro Area Forecast: 2005 Economic Outlook*," *The Oklahoma Economy*, 2005. pp. 10-13.
- Systems Estimation Using Generalized Cross Entropy*: 2005
- A Data Envelopment Analysis Approach to MSAs' Efficiency*, with Susanne Rassouli-Currier: 2004
- Regional Bayesian Forecasting and Forecast Aggregation Bias*: 2004
- Calculating the Dynamic Relationship between Basic and Non-Basic Employment*, with Russell W. McKenzie: 2003

### **Funded Research**

- A Tax Incident Policy Model for Michigan**, Institute of Public Policy and Social Research, \$20,000
- An Economic Impact Model of EFNEP and SNAP-ED Food Nutrition Education Programs**, Michigan State University Extension, \$18,000

**Economic Impact of Michigan's Small Business and Technology Development**

**Centers**, 2010, statewide evaluation of the state's primary small business development centers

**The Macroeconomic Impact of the Wisconsin Clean Energy Jobs Act**, \$41,299

Wisconsin DNR: 2010

**The Macroeconomic Impact of the Michigan Climate Action Council Climate Action**

**Plan on the State's Economy**, \$75,240 Kresge Foundation: 2009

**Economic Impact of Michigan's Small Business and Technology Development**

**Centers**, 2009, state-wide evaluation of the state's primary small business development centers

**Various Economic Evaluations of state-sponsored industry recruitment incentives**,

2007-2008, with the Michigan Economic Development Corporation

**Economic Impact of Michigan's Small Business and Technology Development**

**Centers**, 2008, state-wide evaluation of the state's primary small business development centers

**Michigan Citizens' Knowledge, Attitudes, and Groundwater Stewardship Practices:**

**Comparative Analysis of Trends and Stewardship Decisions**, with Abdul

Abdulkadri, 2008, survey of Michigan farmers and residents on knowledge and attitudes about Michigan's water resources

**Project GREEN's Performance, Mission, and Functionality**, with Abdul Abdulkadri and

Thesanee Satimon, 2008, survey evaluation of research grant recipients

**The Economic Impact of the Animal Agriculture Initiative**, with Abdul Abdulkadri, 2008,

retrospective evaluation of state-sponsored funding bill directed at MSU for education, outreach and research.

**Economic Impact of Michigan's Small Business and Technology Development**

**Centers**, 2007, state-wide evaluation of the state's primary small business development centers

**Economic Impact of the IR-4**, 2006, Nation-wide evaluation of the IR-4 Project for

pesticide registration

**USD 332: Cunningham School District**, 2006, create redistricting map based on

population distribution

**USD 300: Comanche School District**, 2006: create redistricting map based on population

distribution

**Kansas Inc.**, 2006, Kansas Aerospace Industry Forecast, With Janet Harrah and Anne

Gallagher

**Kansas Preservation Alliance**, 2006, estimate state private wealth as a measure of

potential estate funds

**Greater Wichita Economic Development Coalition**, 2005, estimate state-level impacts of

discount airline presence at the Wichita, Mid-Continent Airport

**The Kansas Chamber (KCCI)**, 2006. Estimate economic impacts of eliminating machinery

& equipment tax on new machinery and equipment investment for Kansas within a computable general equilibrium framework

**Oklahoma Department of Human Services, Child Care Division**, 2003-2004.

Comprehensive industry study and construction of child care industry employment, output, and earnings measures from survey data. With Mark Snead

**Oklahoma Department of Human Services, Child Support Collection Division**, 2002-

04. Analytical study evaluating the use of economic and demographic factors in improving child support collection success in Oklahoma. With Mark Snead and Dan Rickman.

**Oklahoma Department of Human Services, Child Care Division, 2003.** Compilation and analysis of data from the 2003 Oklahoma Child Care Survey evaluating the availability and cost of licensed child care services across the state. With Mark Snead

**Oklahoma Office of State Finance, 2000-01.** Project assessing the applicability of macroeconomic models to the State pension fund management process. Co-principal investigator with Tim Krebhiel.

**Oklahoma Office of State Finance, 2000.** Historical industry-sector stock indices for Oklahoma publicly traded companies. Principal investigator.

### **State and Regional Forecasts**

2007 Sectoral Employment, Income, and Population Forecast of Kansas and the Wichita, Lawrence, Kansas City, and Topeka MSAs, September, 2006

2006 Sectoral Employment, Income, and Population Forecast of Kansas and the Wichita MSA Update, April, 2006

2006 Sectoral Employment, Income, and Population Forecast of Kansas and the Wichita MSA, November, 2005

### **Industrial Revenue Bond and Economic Development Exemption Impact Studies**

*Air Advantage:* January, 2010, Southeast Michigan

*Abengoa Bionenergy:* August, 2005, City of Colwich, Sedgwick County, USD 267, Kansas

*Courtyard Marriott:* August, 2005, City of Wichita, Sedgwick County, USD 259, Kansas

*Infonxx Inc.:* October 2005, City of Wichita, Sedgwick County, USD 259, Kansas

*JR Custom Metal Products Inc.:* October 2005, City of Wichita, Sedgwick County, USD 259, Kansas

*Millennium Concepts:* October 2005, City of Wichita, Sedgwick County, USD 259, Kansas

*United Warehouse Co.:* November 2005, Sedgwick County, USD 259, Kansas

*Integra Technologies LLC:* December 2005, Sedgwick County, USD 259, Kansas

### **Teaching Experience**

*Instructor:* Wichita State University, Spring 2006

*The Entrepreneurial Experience*

*Instructor:* Oklahoma State University-Tulsa, Spring 2005

*Money and Banking,*

*Business and Government*

*Instructor:* Oklahoma State University-Tulsa, Fall 2004

*Money and Banking,*

*International Economic Relations*

*Instructor:* Oklahoma State University, Fall 2003

*Money and Banking,*

*Half semester of Managerial Economics*

*Instructor:* Oklahoma State University, Spring 2003

*Intermediate Macroeconomics*

*Instructor:* Oklahoma State University, Fall 2002

*Intermediate Macroeconomics*

*Principles of Microeconomics*

*Instructor:* Oklahoma State University, Spring 2002

*Principles of Microeconomics*

*Instructor:* Oklahoma State University, Fall 2001

*Principles of Macroeconomics*

*Instructor:* Oklahoma State University, Summer 2001

*Principles of Microeconomics*

*Instructor:* Oklahoma State University, Fall 2000 – Spring 2001

*Economics of Social Issues*

**Community and University Services**

Bowl for Kids Sake: BB&S: Team Leader, 2006

Big Brothers and Sisters of Sedgwick County, 2005-current

CBA: Student Technology Fee Committee Representative, 2003-2004.

CBA: Student Technology Fee Committee Representative, 2000-2001.

University: Student Technology Fee Committee Representative, 2001.

Dept. Of Economics and Legal Studies: Developed Student Tracking Databank and interface, 1999.

Chairperson: Parking Taskforce, Off-Campus Student Association 1991-1992

Student Fee Allocation Committee, Student Government Association, 1991-1992

Student Representative: Off-Campus Student Association 1990-1992

**Reviewer**

Journal of Economics

Journal of Regional Science