

CURRICULUM VITAE OF JOSEPH V. TERZA

February 2016

Contact Information:

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Degrees Earned:

Ph.D. (Economics) University of Pittsburgh, 1981
M.A. (Economics) University of Pittsburgh, 1979
B.A. (Economics) St. Vincent College, 1974

Employment:

Professor of Economics, Indiana University Purdue University Indianapolis, August 2012 to present.
Professor of Economics, University of North Carolina - Greensboro, July 2009 to July 2012.
Professor of Epidemiology and Health Policy Research, Institute for Child Health Policy, University of Florida, July 2005 to June 2009.
Professor of Health Administration and Policy, Medical University of South Carolina, August 2003 to July 2005.
Associate Professor of Economics, The Pennsylvania State University, August 1986 to July 2003
Associate Professor of Economics, University of Georgia, September 1986 to August 1988
Assistant Professor of Economics, University of Georgia, September 1981 to August 1986
Assistant Professor of Economics, Clarion University, August 1980 to August 1981

Research Interests:

Econometrics, Health Economics

Professional Activity:

Editorial Board Member, *Foundations and Trends in Econometrics*, 2003-present.
Associate Editor, *Health Services Research*, 2008-present.
Associate Editor, *Journal of the American Statistical Association*, 1989-1992.
Member, AcademyHealth Methods Council, 2009-present.
Member, AcademyHealth Health Services Research Consortium, 2011-present.
Scientific Review Committee, American Society of Health Economists, 2006-2010.
Scientific Review Committee, International Health Economics Association, 2005-2010.
Memberships - International Health Economics Association, American Society of Health Economists.
Coinvestigator, Developing Evidence to Inform Decisions about Effectiveness (DEcIDE) Center, University of Maryland (Bruce Stuart PI), funded by Agency for Healthcare Research and Quality, 2007-2010.
Coinvestigator, DEcIDE-2 Center, University of Iowa (Elizabeth Chrischilles PI), funded by Agency for Healthcare Research and Quality, 2010-2013.
DEcIDE Frameworks Workgroup, Agency for Healthcare Research and Quality, 2009-2010.
Grant Reviewer, National Science Foundation, Economics Program, 2009.
Grant Reviewer, Robert Wood Johnson Foundation, Substance Abuse Policy Research Program, 2006-present.
Study Section -- Health Services Research on Alcohol-Related Problems - National Institute on Alcohol Abuse and Alcoholism, July, 1997.
Study Section -- Health Systems Research - Agency for Healthcare Research and Quality, 2006-2011.
Served on informal special emphasis review panel for the Agency for Healthcare Quality and Research, August, 2007.
Study Section -- Special Emphasis Panel -- Partnerships for Sustainable Research and Dissemination of Evidence-based Medicine - Agency for Healthcare Research and Quality, September 20-21, 2012.
Reviewer for Evidence Based Reviews in Urology. Critiqued paper titled "Use of Radical Cystectomy for Patients with Invasive Bladder Cancer," published in the *Journal of the National Cancer Institute*, 2011.

Awards and Honors:

Keynote Speaker, International Stata Users Meeting in Mexico, November 2014.
Keynote Speaker, Annual Meeting of the Canadian Health Economics Study Group, June 2012.
Best published paper award for 2006 by the Research Committee of the American Spinal Injury Association (see Krause and Terza, 2006, under "Journal Articles" below).
Grubb and Ellis manuscript prize for the best research paper on real estate market

analysis presented at the annual meeting of the American Real Estate Society, 1989. (see Okoruwa, Nourse and Terza, 1994, under “Journal Articles” below).

Finalist for best article in *Economic Inquiry* award for 1989 (see Fishback and Terza, 1989, under “Journal Articles” below)

Estimation method developed in Terza (1985c) [see below] is programmed and packaged in Stata beginning with version 14[®] -- see the “cpoisson” command.

Estimation method developed in Terza (1998) [see below] is programmed and packaged in Stata beginning with version 13[®] -- see the “etpoisson” command.

Journal Articles:

Terza, J.V. (2015): “Simpler Standard Errors for Two-Stage Optimization Estimators,” the *Stata Journal*, forthcoming.

Terza, J.V. (2015): “Inference Using Sample Means of Parametric Nonlinear Data Transformations,” *Health Services Research*, forthcoming.

Terza, J.V. (2015): “Threshold Specification and Parameter Identification in the Generalized Ordinal Probit Model,” *Journal of Economic Surveys*, forthcoming.

Krause, J.S., Terza, J.V., Cao, Y. and Clark, J. (2015): “Emergency Room Visits and Hospitalizations Among Participants with Spinal Cord Injury,” *NeuroRehabilitation*, 36, 313-321.

Kerr, W.C., Paterson, D., Greenfield, T.K., Snow-Jones, A., McGeary, K.A., Terza, J.V., and Ruhm, C.J. (2013): "Alcohol prices and affordability in the US from 1950 to 2011," *American Journal of Preventive Medicine*, 44, 459-464.

Ruhm, C.J., Snow-Jones, A., Kerr, McGeary, K.A., Kerr, W.C., Terza, J.V., Greenfield, T.K., and Pandian, R.S. (2012): “What U.S. Data Should be Used to Measure the Price Elasticity of Demand for Alcohol?,” National Bureau of Economic Research Working Paper No. w17578, *Journal of Health Economics*, 31, 851-862.

Krause, J.S., Terza, J.V., Erten, M.Z., Focht, K.L., and Disumke, C.E. (2012): “Prediction of Post-injury Employment and Percentage of Time Worked after Spinal Cord Injury,” *Archives of Physical Medicine and Rehabilitation*, 93, 373-375.

Disumke, C.E., Krause, J.S., and Terza, J.V. (2011): “Racial Disparities in Poverty Status Among Families of Individuals with Spinal Cord Injury,” *Poverty & Public Policy*, 3 (1), Article 9.

Krause, J.S., Terza, J.V. and Disumke, C.E. (2010): “Factors Associated with Labor Force Participation After Spinal Cord Injury,” *Journal of Vocational*

Rehabilitation, 33, 89-99.

- Krause, J.S., Terza, J.V., Saunders, L.L. and Dismuke, C.E. (2010): "Delayed Entry into Employment after Spinal Cord Injury: Factors Related to Time to First Job," *Spinal Cord*, 48, 487-491.
- Knapp, C., Shenkman, E.A, Marcu, M., Madden, V., and Terza, J.V (2009): "Pediatric Palliative Care: Describing Hospice Users and Identifying Factors that Affect Hospice Expenditures," *Journal of Palliative Medicine*, 12, 223-229.
- Terza, J.V. (2009): "Parametric Nonlinear Regression with Endogenous Switching," *Econometric Reviews*, 28, 555-580.
- Stuart, B.C, Doshi, J., and Terza, J.V. (2009): "Assessing the Impact of Drug Use on Hospital Costs," *Health Services Research*, 44, 128-144.
- Krause, J.S., Terza, J.V. and Dismuke, C.E. (2008): "Earnings among People with Spinal Cord Injury," *Archives of Physical Medicine and Rehabilitation*, 89, 1474-1481.
- Terza, J., Basu, A. and Rathouz, P. (2008): "Two-Stage Residual Inclusion Estimation: Addressing Endogeneity in Health Econometric Modeling," *Journal of Health Economics*, 27, 531-543.
- Terza, J., Bradford, W.D. and Dismuke, C.E. (2008): "The Use of Linear Instrumental Variables Methods in Health Services Research and Health Economics: A Cautionary Note," *Health Services Research*, 43, 1102-1120.
- Terza, J., Kenkel D.S., Lin, T., and Sakata, S. (2008): "Care-Giver Advice as a Preventive Measure for Drinking During Pregnancy: Zeros, Categorical Outcome Responses, and Endogeneity," *Health Economics*, 17, 41-54.
- Shea, D.G., Terza, J.V., Stuart, B.C., and Briesacher, B. (2007): "Estimating the Effects of Prescription Drug Coverage for Medicare Beneficiaries," *Health Services Research*, 43, 933-949.
- Terza, J. (2006): "Estimation of Policy Effects Using Parametric Nonlinear Models: A Contextual Critique of the Generalized Method of Moments," *Health Services and Outcomes Research Methodology*, 6, 177-198.
- Terza J. and Tsai, W. (2006): "Censored Probit Estimation with Correlation near the Boundary: A Useful Reparameterization," *Review of Applied Economics*, 2, 1-12.
- Krause, J.S., and Terza, J.V. (2006): "Injury and Demographic Factors Predictive of Disparities in Earnings after Spinal Cord Injury," *Archives of Physical Medicine and Rehabilitation*, 87, 1318-1326. (Best published paper award for 2006 by the Research Committee of the American Spinal Injury Association).

- Terza, J. (2006): "Optimal Discrete Prediction in Parametric Binary Response Models," *Economics Letters*, 91, 72-75.
- Pryor, C., and Terza, J. (2002): "Are Going Concern Audit Opinions a Self-fulfilling Prophecy?" *Advances in Quantitative Analysis of Finance and Accounting*, 10, 89-116.
- Terza, J. (2002): "Alcohol Abuse and Employment: A Second Look," *Journal of Applied Econometrics*, 17, 393-404.
- Kozlowski, L., G., Strasser, Giovino, G., Erickson, P., and Terza, J. (2001): "Applying the Risk/Use Equilibrium: Use Medicinal Nicotine Now for Harm Reduction," *Tobacco Control*, 10, 201-203.
- Kenkel, D., Terza, J. (2001): "The Effect of Physician Advice on Alcohol Consumption: Count Regression with an Endogenous Treatment Effect," *Journal of Applied Econometrics*, 16, 165-184.
- Terza, J. (1999): "Estimating Endogenous Treatment Effects in Retrospective Data Analysis," *Value in Health*, 2, 429-434.
- Terza, J. (1998): "Estimating Count Data Models with Endogenous Switching: Sample Selection and Endogenous Treatment Effects," *Journal of Econometrics*, 84, 129-154. [Programmed and packaged in Stata beginning with version 13[®] -- see the "etpoisson" command.]
- Coulson, E., Neslusan, C., Stuart, B., and Terza J. (1995): "Estimating the Moral Hazard Effect of Supplemental Medical Insurance in the Demand for Prescription Drugs by the Elderly," *American Economic Review - Papers and Proceedings*, 85, 122-126.
- Okoruwa, A., Nourse, H., and Terza, J. (1994): "Estimating Sales for Retail Centers: An Application of the Poisson Gravity Model," *Journal of Real Estate Research*, 9, 85-96. (1989 Grubb and Ellis manuscript prize for the best research paper on real estate market analysis presented at the annual meeting of the American Real Estate Society.).
- Coughlin, C., Terza, J., and Arrondee, V. (1991): "State Characteristics and the Location of Foreign Direct Investment Within the United States," *Review of Economics and Statistics*, 73, 675-683.
- Terza, J., Welland, U. (1991): "A Comparison of Bivariate Normal Algorithms," *Journal of Statistical Computation and Simulation*, 39, 115-127.
- Terza, J., Wilson, P. (1990): "Analyzing Frequencies of Several Types of Events: A Mixed Multinomial-Poisson Approach," *Review of Economics and Statistics*, 72, 108-115.

- Coughlin, C., Terza, J., and Arromdee, V. (1990): "State Government Effects on the Location of Foreign Direct Investment," *Regional Science Perspectives*, 20, 194-207.
- Coughlin, C., Terza, J., and Khalifah, N. (1989): "Determinants of Escape Clause Petitions," *Review of Economics and Statistics*, 71, 341-347.
- Fishback, P., and Terza, J. (1989): "Are Estimates of Sex Discrimination by Employers Robust: The Use of Never-Marrieds," *Economic Inquiry*, 27, 271-285. (Finalist for best article in *Economic Inquiry* award for 1989.)
- Fu, T., Epperson, J., Terza, J., and Fletcher, S. (1988): "Producer Attitudes Toward Peanut Marketing Alternatives: An Application of Multivariate Probit Joint Estimation," *American Journal of Agricultural Economics*, 70, 910-918.
- Okoruwa, A., Terza, J., and Nourse, H. (1988): "Estimating Patronization Shares for Urban Retail Centers: An Extension of the Poisson Gravity Model," *Journal of Urban Economics*, 24, 241-259.
- Sinke, J., Terza, J. and Dince, R. (1987): "A Zeta Analysis of Failed Commercial Banks," *Quarterly Journal of Business and Economics*, 26, 35-49.
- Terza, J. (1987): "Estimating Linear Models with Ordinal Qualitative Regressors," *Journal of Econometrics*, 34, 275-291.
- Fletcher, S., and Terza, J. (1986): "Analyzing Farmers' Selection of Available Marketing Alternatives Using the Multivariate Probit Model," *Canadian Journal of Agricultural Economics*, 34, 243-252.
- Hunt, J., Terza, J., White, R., and Moore, T. (1986): "Wages, Union Membership, and Public Sector Bargaining Legislation: Simultaneous Equations with an Ordinal Qualitative Regressor," *Journal of Labor Research*, 12, 255-267.
- Terza, J. (1986): "Determinants of Household Electricity Demand: A Two-Stage Probit Approach," *Southern Economic Journal*, 52, 1131-1139.
- Terza, J., and Okoruwa, A. (1985): "An Algorithm for the Estimation of Poisson Regressions Involving Structural Change," *Communications in Statistics*, B14, 853-866.
- Terza, J. (1985d): "Econometric Models with Normal Polychotomous Selectivity," *Economics Letters*, 19, 165-170.
- Terza, J. (1985c): "A Tobit-Type Estimator for the Censored Poisson Regression Model," *Economics Letters*, 18, 361-365. [Programmed and packaged in Stata beginning with version 14[®] -- see the "cpoisson" command.]

- Terza, J. (1985b): “Ordinal Probit: A Generalization,” *Communications in Statistics*, A14, 1-11.
- Terza, J. (1985a): “Reduced Form Trinomial Probit: A Quantal Response Model without A Priori Restrictions,” *Journal of Business and Economic Statistics*, 3, 54-59.
- DeLorme, C., Terza, J., and Wood, N. (1984): “Inflation and Political Unrest in Developing Nations,” *Economic Notes*, 13, 76-84.
- Terza, J., and Welch, W. (1982): “Estimating Demand under Block Rates: Electricity and Water,” *Land Economics*, 58, 181-188.

Book Chapters and Proceedings:

- Terza, J.V., (2014): “Sample Selection Bias in Health Econometric Models,” *Encyclopedia of Health Economics*, edited by Tony Culyer, 298-301.
- Terza, J.V., (2014): “Instrumental Variables: Methods,” *Encyclopedia of Health Economics*, edited by Tony Culyer, 67-71.
- Terza, J., and Welch, W. (1982): “Estimating Demand under Block Rates: Electricity and Water,” *Land Economics*, 58, 181-188. Reprinted in the *Economics of Water Resources*, Grafton, R.Q. ed., Cheltenham, UK: Edward Elgar Publishing Ltd, 2008.
- Terza, J. (1980): “Heckman’s Method Extended to Polychotomous Choice Models,” *Proceedings of the Business and Economics Section of the American Statistical Association*, 466-470.
- Terza, J. (1980): “A Proposed Estimator for Situations Involving Sample Selection Based on Polychotomous Choice,” *Modeling and Simulation*, 11, 491-495.
- Terza, J. (1983): “A Two-Stage Estimator for Models with Ordinal Selectivity,” *Proceedings of the Business and Economics Section of the American Statistical Association*, 484-486.
- Okoruwa, A., Terza, J., and Nourse, H. (1988): “Estimating Patronization Shares for Urban Retail Centers: An Extension of the Poisson Gravity Model,” *Journal of Urban Economics*, 24, 241-259. Reprinted in John D. Benjamin, editor, *Megatrends in Retail Real Estate, Research Issues in Real Estate, Vol.3*, Boston: Kluwer Academic Publishers, 1996, 81-99.
- Terza, J. (February, 1999): “Analyzing the Effects of Public Policy Using Nonexperimental Data: Applications in Health Economics,” *Economic*

Directions, 9. Transcript of my Mckenna Lecture at St. Vincent College (see Invited Lecture below).

Grant Funding and Submitted Grant Applications

Co-Principal Investigator

"Army Reenlistment by Occupation: A Probit Approach," with Ronald S. Warren, Army Research Institute, \$16,298, June, 1986.

Status: Completed

Co-Principal Investigator

"Vertical Integration and Health Care Markets," with Don Kenkel and Cheryl Neslusan, Penn State Research and Graduate Studies office, \$7,100, December, 1992.

Status: Completed

Principal Investigator

"Health Econometric Models with Endogenous Switching: A Unifying Structure," Penn State Population Research Institute, \$5000, June, 1999.

Status: Completed

Co-Investigator

"Smoking and Low-Tar Cigarettes: Follow-up and Simulation," with Lynn Kozlowski, et al. (Department of Biobehavioral Health - Penn State University) Centers for Disease Control, Office of Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, \$98,830 (9/30/97 -- 9/29/99).

Status: Completed

Principal Investigator

"Favorable Selection and Cost Containment by Medicare HMOs: A Two-Part Model of Fee-for-Service Costs with Endogenous Enrollment," U.S. Veteran's Administration Management Science Group, \$10,610, June, 1999.

Status: Completed.

Principal Investigator

"Assessing the Cost-Containment Effects of Medicare HMOs," Research and Graduate Studies Office, Penn State University, \$8,000 (09/01/2001 - 8/31/2002).

Status: Completed..

Co-Principal Investigator

"Econometric Analysis of Fetal Alcohol Syndrome Preventive Interventions," with Donald S. Kenkel (Department of Policy Analysis and Management - Cornell University) National Institute on Alcohol Abuse and Alcoholism, \$270,102 (09/01/2000 -- 6/30/2004).

Status: Completed.

Principal Investigator

"Assessing the Impact of Substance Abuse on Employment Status," Robert Wood

Johnson Foundation, \$99,801 (07/01/2002 – 6/30/2004)
Status: Completed

Principal Investigator

“Treatment Patterns for Bipolar Disorder and the Time to Mental Health Hospitalization,” Robert Wood Johnson Pharmaceutical Research Institute \$112,000 (9/1/03-6/30/03)
Status: Completed

Consultant

“Evaluation of the Effect of Medicare Drug Policy Decisions on Vulnerable Seniors,” (Bruce Stuart PI, U. of Maryland PI) The Commonwealth Fund \$278,757 (1/1/04-6/30/05)
Status: Completed

Co-Investigator

“Correcting Under-reporting in HCUP Inpatient Data,” (Libby Dismuke PI, Medical University of South Carolina) Agency for Healthcare Research and Quality, \$100,000 (7/1/04-6/30/05)
Status: Completed

Co-Investigator

“Utilization and Cost of Health Services by Chronic Drug Users,” (David Bradford PI, Medical University of South Carolina) National Institute on Drug Abuse, \$492,740 (9/1/02-2/28/05)
Status: Completed

Co-Investigator

“Establishing the Value of Stable Prescription Drug Coverage for Medicare Beneficiaries,” (Bruce Stuart PI, U. of Maryland PI) Robert Wood Johnson Foundation \$291,000 (1/1/04-6/30/05)
Status: Completed

Coinvestigator

“Medicare Beneficiary Response to Benefit Gaps versus Actuarially Equivalent Continuous Coverage for Prescription Drugs,” (Bruce Stuart PI, U. of Maryland PI) Robert Wood Johnson Foundation - Changes in Health Care Financing and Organization Program and AcademyHealth, \$141,000. (7/1/06 – 6/30/07).
Status: Completed

Principal Investigator

"Measuring the Net Public Health Impact of Increased Access to Potential Reduced Exposure Products for Smokers," Robert Wood Johnson Foundation, \$99,584
Status: Completed

Coinvestigator

“Health Plan Turnover and Disenrollment, Health Care Quality and Expenditures in SCHIP,” (Sema Aydede PI, U. of Florida) Health Resources and Services Administration, \$99,995.
Status: Completed.

Principal Investigator

“Education and Smoking Cessation: Establishing the Causal Link” 2007 Faculty Support for Graduate Assistant, Institute for Child Health Policy, University of Florida.
Status: Completed.

Principal Investigator

“Drug Coverage and Cost Offsets: Two-Part Models with Endogenous Treatment Effects,” Agency for Health Care Research and Quality, \$412,225.
Status: Completed.

Coinvestigator

"Econometric Study of Schooling, Information, and Smoking" Supplemental/Revision, (Don Kenkel PI, Cornell U.) National Institutes of Health, National Institute of Child Health and Human Development, \$229,321
Status: Completed.

Principal Investigator

"The Effect of Education on Smoking Behavior"
Cornell University and National Institutes of Health, \$43,589.
Status: Completed.

Principal Investigator

“Selection Bias in Health IT Measurement: Hospitals’ Meaningful Use of Health IT,” (Co-I, Jeffrey McCullough, University of Minnesota) McDowell Research Center for Global IT Management, Bryan School of Business, University of North Carolina at Greensboro, \$3,000
Status: Completed.

Principal Investigator

“An Econometric Framework for Evaluating the Comparative Effectiveness of Prospective Obesity-Related Public Policy Interventions,” Office of Research, Bryan School of Business and Economics, University of North Carolina at Greensboro, \$3,000
Status: Completed.

Collaborator

“Developing Evidence to Inform Decisions about Effectiveness Research Network - 2,” (Elizabeth Chrischilles PI, U. of Iowa) Agency for Healthcare Research and Quality.
Status: Funded and in progress.

Principal Investigator

"Quality Substitution Among Heavy and AUD Drinkers and Alcohol Tax Policy," Supplement/Revision, National Institute on Alcohol Abuse and Alcoholism, \$89,146.
Status: Funded and in progress.

Coinvestigator

"Interpreting Instrumental Variable Estimates when Treatment Effects are Heterogeneous Across Patients: ACE/ARBs and Race," (John Brooks PI, U. of Iowa) National Institutes of Health, \$361,652
Status: Funded and in progress.

Coinvestigator

"Instrumental Variables Methods for Censored Cost Data and an Application to Prostate Cancer," (Anirban Basu PI, U. of Washington) National Cancer Institute, \$308,997
Status: Funded and in progress.

Consultant

"Successful Employment and Quality Work Life After Severe Disability Due to SCI," (James Krause PI, Medical University of South Carolina) Department of Education -- National Institute for Disability and Rehabilitation Research.
Status: Funded and in progress.

Coinvestigator

"An Econometric Framework for Causal Analysis of Obesity Policy Alternatives," Georgia State University.
Status: Funded and in progress.

Consultant

"Successful employment and quality work life after severe disability: Comparison of predictive models with multiple sclerosis and spinal cord injury" (Co-PIs James Krause PI, Medical University of South Carolina and Paul Wheman, Virginia Commonwealth University) Department of Education -- National Institute for Disability and Rehabilitation Research.
Status: Funded and in progress.

Coinvestigator

"Epidemiology of Alcohol Problems: Alcohol-related Disparities," (William Kerr PI, Alcohol Research Group/Public Health Institute) NIH/National Institute of Alcohol Abuse and Alcoholism.
Status: Funded and in progress.

Coinvestigator

"New Estimates of the Prevalence and Risk of Drinking and Driving in the United States using the Fatality Analysis Reporting System," (Richard Dunn PI, University of Connecticut) NIH/National Institute of Alcohol Abuse and Alcoholism.
Status: Under Review.

Coinvestigator

“Measuring and Improving the Value of Health Care for Underserved Populations,”
(Aten Turkcan PI, Northeastern University).
Status: LOI Submitted.

Work in Progress:

Terza, J.V.: “Two-Stage Residual Inclusion Estimation in Health Services Research and Health Economics,” revised and re-submitted to *Health Services Research*.

Terza, J.V.: “Practical Issues in Causal Effect Estimation and Inference Based on Parametric Nonlinear Regression,” submitted to the *Stata Journal*.

Terza, J.V., Snow-Jones, A., Devaraj, S., Greenfield, T., Kerr, W., McGeary, K.A., and Ruhm, C.: Specification and Estimation of Own-Price Elasticity in Two-Part Models of Alcohol Demand,” Submitted to the *Journal of Health Economics*.

Aydede, S.K., Terza, J.V., Sappington, D.E.M, Vogel, W.B., Erten M.Z., and Shenkman, E.A.: “Health Plan Exit and Disenrollment from a State Children’s Health Insurance Program,” submitted to *Health Services Research*, revision requested.

Terza, J.V.: "Health Policy Analysis from a Potential Outcomes Perspective: Smoking During Pregnancy and Birth Weight."

Rathouz, P., Basu, A. and Terza, J.V.: “Old and New Instrumental Variables Models for Causal Inference: A Biostatistician's Futile Redevelopment?”

Terza, J.V., Parish, W.J., and Krause, J.S.: “One More Slice of Cake Please: Empirical Health Economics and the Two-Part Modeling Debate Revisited.”

Terza, J.V. and Parish, W.J.: “Causal Analysis of Health Policy in the Two-Part Modeling Context: A Piece of Cake?”

Cunningham, J., Terza, J.V, and Trombley, M.: “Causal Analysis of Health Policy via Regression Models with Non-negative and Count-valued Outcomes: Minimally Parametric and Full Information Methods for Endogenous Treatment Effects and Sample Selection Bias.”

Terza, J.V., Vechnak, P.B.: “Assessing the Potential Effect of Substance Abuse Prevention and Treatment on Employment Status.”

Moran, J.R., Kanter, R.K. and Terza, J.V.: “Child Mortality at Pediatric and Other Hospitals.”

Dismuke, C.E, Bradford, W.D., Kleit, A. and Terza, J.V.: “Predicting Missing Information in Hospital Data: An Application of Detection Control Estimation.”

Erten, M.Z., and Terza, J.V.: “Skewed Outcomes and Endogenous Regressors:

Prescription Drug Utilization and Hospital Cost Offsets.”

McGeary, K.A., Kerr, W., Greenfield, T., Terza, J.V., Snow-Jones, A., and Ruhm, C.:
“Quality Substitution and the Elasticity of demand for Alcohol.”

Terza, J.V., and Erten, M.Z.: “Difference-in-Differences Estimation in Nonlinear Models
with Endogeneity.”

Econometric Methods for Health Policy Analysis and Health Services Research,
manuscript in progress.

Introduction to Econometrics for Health Policy Analysis and Health Services Research,
manuscript in progress.

Elementary Statistics for Econometrics, manuscript in progress.

Participation in Professional Meetings and Conferences

Date	Description of activity
1980	Presented paper, “A Proposed Estimator for Situations Involving Sample Selection Based on Polychotomous Choice,” Modeling and Simulation Conference.
1980	Presented paper, “Heckman’s Method Extended to Polychotomous Choice Models,” American Statistical Association Meeting.
1981	Presented paper, “Consumer Surplus and the Econometric Modeling of Individual Choice,” Pennsylvania Conference of Economists.
1981	Presented paper, “The Reservation Wage Differential as an Index of the Bad Effects of Shiftwork,” Eastern Economic Association, April.
1983	Presented paper, “A Two-Stage Estimator for Models with Ordinal Selectivity,” American Statistical Association Meeting.
1984	Presented paper, “Financing Construction Work in Progress and the Prediction of Electric Utility Bond Ratings: An N-chotomous Probit Analysis,” co-authored with Gena F. Hampton, Annual Public Utilities Conference, Atlanta, GA, September.
1984	Presented paper, “Wages, Union Membership, and the Public Sector Bargaining Legislation: Simultaneous Equations with an Ordinal Qualitative Regressor,” Southern Economic Association, November.
1985	Presented paper, “Estimating a Two-Equation Simultaneous System Involving

- Both Qualitative and Continuous Endogenous Variables,” accepted for presentation at the Winter Meeting of the Econometric Society, December.
- 1986 Presented paper, “Predicting Urban Trip Frequencies by Type: A Mixed Poisson-Multinomial Regression Model,” co-authored with Paul Wilson, Summer Meeting of the Econometric Society, June.
- 1987 Chaired session entitled, “Econometric Models with Qualitative and Limited Dependent Variables,” The Institute of Management Science/Operation Research Society of America (TIMS/ORSA), May.
- 1987 Presented paper, “Multivariate Probit Analysis: Seemingly Unrelated Nonlinear Regression without Grouped Data,” with T. T. Fu, and S. M. Fletcher, The Institute of Management Science/Operations Research Society of America (TIMS/ORSA), May.
- 1987 Presented paper, “Determinants of Escape Clause Petitions,” American Economic Association, December.
- 1991 Presented paper, “A Lagrange Multiplier Test of the Independence from Irrelevant Alternatives in Multinomial Choice Models,” Econometric Society, Winter Meeting, New Orleans, LA.
- 1993 Discussant, at AEA Meeting in Boston, December.
- 1994 Presented paper, “Dummy Endogenous Variables and Endogenous Switching in Exponential Conditional Mean Regression Models,” North American Summer Meeting of the Econometric Society, Quebec, Canada, June.
- 1994 Presented paper, “The Effect of Physician Advice on Health Lifestyles: Estimation with Nonnegativity, Endogeneity, and Self-Selection,” with Don Kenkel, Health Economics Conference at the University of Chicago, October.
- 1995 Presented paper, “Estimating the Moral Hazard Effect of Supplemental Medical Insurance in the Demand for Prescription Drugs by the Elderly,” with Cheryl Neslusan, American Economic Association, Washington, DC, January.
- 1995 Presented paper, “The Effect of Physician Advice on Health Lifestyles: Estimation with Nonnegativity, Endogeneity, and Self-Selection,” with Don Kenkel, Winter Meeting of the Econometric Society, Washington, DC, January.
- 1997 Presented paper, “Estimating Multiple-Index Regression Models with Endogenous Switching,” North American Summer Meeting of the Econometric Society, Pasadena, June 1997.
- 1997 Discussant, North American Summer Meeting of the Econometric Society, Pasadena, June 1997.

- 1997 Presented paper, "A Survey of Methods for Dealing with Endogenous Switching in Health-Econometric Modeling," with Kerry Anne McGeary, Fifth Annual Health Economics Conference Sponsored by the Veterans Administration Management Science Group, Newport, August 1997.
- 1997 Presented paper, "Exponential Regression with Endogenous Polychotomous Treatment Effects: GMM vs. Two-Stage Estimation," with Cheryl Neslusan, Midwest Econometrics Group, Michigan State University, October 1997.
- 1997 Session chair, "Panel and Duration Models," Midwest Econometrics Group, Michigan State University, October 1997.
- 1998 Presented paper, "Estimating the Effect of Physician Advice on Alcohol Consumption: Count Data Regression with an Endogenous Treatment Effect," with Don Kenkel, Sixth Annual Health Economics Conference Sponsored by the Veterans Administration Management Science Group, Newport, August.
- 1998 Session Chair, Midwest Econometrics Group, Indiana University, September.
- 1998 Presented paper, "Estimating the Effect of Physician Advice on Alcohol Consumption: Count Data Regression with an Endogenous Treatment Effect," with Don Kenkel, Southern Economics Association, November.
- 1998 Presented paper, "A Common Structure for Multiple-Index Nonlinear Regression Models with Endogenous Switching," Midwest Econometrics Group, Indiana University, September.
- 2000 Presented paper, "Methodologies for Dealing with Unobserved Confounders: Propensity Score, Instrumental Variables, Two-Stage Method of Moments," Annual Meeting of the International Society for Pharmacoeconomics and Outcomes Research, May.
- 2000 Presented paper, "Medicare HMOs: Cost Containment, Risk Selection, and Risk-Adjusted Premiums," VA Management Science Group, Newport, RI, August.
- 2000 Presented paper, "Favorable Selection and Cost Containment by Medicare HMOs: A Two-Part Model of Fee-for-Service Costs with Endogenous Enrollment," Penn State University, Dept. of Health Policy and Administration.
- 2000 Presented paper, "Favorable Selection and Cost Containment by Medicare HMOs: A Two-Part Model of Fee-for-Service Costs with Endogenous Enrollment," Southern Economic Association, November.
- 2000 Presented paper, "Assessing the Effects of Substance Abuse on Employment Status," Southern Economic Association, November.

- 2000 Discussant, Southern Economic Association, November.
- 2001 Presented paper, "Estimating a Rational Addiction Model of Cigarette Consumption," International Health Economics Association, York England, July.
- 2001 Presented paper, "Assessing the Effects of Substance Abuse on Employment Status," International Health Economics Association, York England, July.
- 2002 Presented paper, "Econometric Analysis of Preventive Interventions for Fetal Alcohol Syndrome," with Don Kenkel, Tsui-Fang Lin, and Shinichi Sakata, Eleventh European Workshop on Econometrics and Health Economics, Lund, Sweden, September. Attended as a current grantee.
- 2003 Presented paper, "Treatment Patterns for Bipolar Disorder and the Time to Mental Health Hospitalization: Correcting for Endogeneity in a Survival Model," (with Silas Martin, William Crown, and Cheryl Neslusan), Annual Meeting of the International Health Economics Association, San Francisco, June.
- 2004 Discussant, 13th European Workshop on Econometrics and Health Economics, Venafro Italy, September.
- 2004 Presented paper, "An Econometric Framework for Analyzing Health Policy with Nonexperimental Data," Annual Meeting of the Midwest Econometrics Group, Northwestern University, October.
- 2004 Presented paper, "Econometric Analysis of Prenatal Advice as a Preventive Measure for Fetal Alcohol Syndrome," Annual Meeting of the Midwest Econometrics Group, Northwestern University, October.
- 2004 "Assessing the Impact of Substance Abuse on Employment Status," Annual Grantees Meeting of the Substance Abuse Policy Research Program of the Robert Wood Johnson Foundation, Charleston SC, December.
- 2005 "Econometric Methods for Health Policy Analysis Using Non-Experimental Data." International Health Economics Association, Pre-Conference Workshop, Barcelona, Spain, July.
- 2005 Presented paper, "Endogeneity in Nonlinear Parametric Models: A Guide for Applied Researchers in Health Economics," International Health Economics Association, Barcelona, Spain, July.
- 2005 Presented paper, "Assessing the Impact of Prescription Drug Use on Hospital Spending," (with Bruce Stuart and Jalpa Doshi) International Health Economics Association, Barcelona, Spain, July.
- 2006 "Econometric Methods for Health Policy Analysis Using Non-Experimental

- Data." American Society of Health Economists, Pre-Conference Workshop, Madison, WI, June.
- 2006 Presented paper, "More Ado About Two: Sample Selection, Endogenous Treatment Effects and the Modified Two-Part Model," American Society of Health Economists, Madison, WI, June.
- 2006 Presented paper, "Endogeneity in Nonlinear Parametric Models: A Guide for Applied Researchers in Health Economics," AcademyHealth Annual Research Meeting, Seattle, WA, June.
- 2006 Participant, Robert Wood Johnson Substance Abuse Policy Research Program, Annual Grantees Meeting, Hilton Head, SC, December.
- 2007 Presented Methods Workshop, "Methods for Dealing with Endogeneity and Selection Bias in Empirical Health Policy Analysis," AcademyHealth Annual Research Meeting, Orlando, FL, June.
- 2007 Presented paper, "Robust Estimation of Marginal and Incremental Effects in Health Econometric Models with Sample Selection and Nonnegative Outcomes," Southeastern Health Economics Study Group Annual Meeting, University of North Carolina, Chapel Hill, NC, October.
- 2007 Presented paper, "Public Health Effects of Policies Promoting the Use of Potential Reduced Exposure Products (PREPs) for Smoking Harm Reduction: Deconstructing the Risk-Use Equilibrium," Robert Wood Johnson Substance Abuse Policy Research Program, Annual Grantees Meeting, Amelia Island, FL, December.
- 2008 Presented Methods Workshop, "Dealing with Endogeneity and Selection Bias," AcademyHealth Annual Research Meeting, Washington, DC, June.
- 2008 Presented paper, "Parametric Regression and Health Policy Analysis: Survey-Based Estimation and Inference in the Presence of Endogeneity," Meeting of the American Society of Health Economists, Duke University, June.
- 2008 Discussant, Meeting of the American Society of Health Economists, Duke University, June.
- 2008 Discussant, Meeting of the Southeastern Health Economics Study Group, University of Alabama - Birmingham, October.
- 2009 Presented Methods Seminar, "Methods for Addressing Endogeneity and Selection Bias in Observational Studies," AcademyHealth Annual Research Meeting, Chicago, June.
- 2009 Presented Methods Workshop, "Dealing with Endogeneity and Selection Bias,"

AcademyHealth Annual Research Meeting, Chicago, June.

- 2009 Invited Participant, Agency for Healthcare Research and Quality Scientific Peer Review: Keeping Pace with New Trends in Peer Review, Bethesda, MD, September.
- 2009 Presented “Statistical Analysis / Sensitivity Analysis in Comparative Effectiveness Research, Agency for Healthcare Research and Quality DEcIDE Network, MD, September.
- 2009 Presented Short Course “Methods for Causal Analysis Using Observational (Non-Experimental) Data: Addressing Selection Bias and Other Forms of Endogeneity in Comparative Effectiveness Analysis,” Society for Medical Decision Making Annual Meeting, Los Angeles, October.
- 2011 Presented Methods Seminar, “Methods for Addressing Endogeneity and Selection Bias in Observational Studies,” AcademyHealth Annual Research Meeting, Seattle, June.
- 2011 Methods Workshop Participant, Workshop Title: *Observational Data Analysis for Comparative Effectiveness Research*; Title of My Presentation: “Nonlinear IV Methods for Comparative Effectiveness Research.” AcademyHealth Annual Research Meeting, Seattle, June.
- 2011 Presented Methods Seminar, “Methods for Addressing Endogeneity and Selection Bias in Observational Studies,” 8th World Congress of the International Health Economics Association, Toronto, July.
- 2012 Presented paper, “One More Slice of Cake: The Two Part Model Revisited” AcademyHealth Annual Research Meeting, Orlando, June.
- 2012 Presented paper, “Simplified Standard Errors for Multi-Stage Regression-Based Estimators” AcademyHealth Annual Research Meeting, Orlando, June.
- 2012 Presented paper, “Correct Standard Errors for Multi-Stage Regression-Based Estimators: A Guide for Practitioners with Illustrations” Annual Stata Conference, San Diego, July.
- 2014 Invited Participant, NBER Health Economics Program Meeting, Bethesda, April.
- 2014 Invited Participant, NBER Summer Institute, Health Economics Program, Boston, July.

Invited Presentations

Date Description of activity

- 1984 Presented paper, "Exogenous and Endogenous Ordinal Qualitative Variables in Econometric Modeling," Department of Economics, University of South Carolina, Columbia, SC, September.
- 1986 Presented paper, "U.S. Army Re-enlistment and Extension by Occupation: A Reduced-Form Trinomial Probit Approach," co-authored with Ronald S. Warren, Army Research Institute, March.
- 1987 Presented paper in Microeconomics Workshop Economics Department, Penn State, Spring.
- 1987 Presented paper in Microeconomics Workshop Economics Department, Penn State, Fall.
- 1987 Presented paper in Microeconomics Workshop Economics Department, Penn State, Spring.
- 1988 Presented paper at Economics Department, Lehigh University, Spring.
- 1988 Presented paper in Econometrics Workshop, Economics Department, Penn State, Spring.
- 1989 Presented paper in Econometrics Workshop, Economics Department, Penn State, May.
- 1989 Presented paper in Econometrics Workshop, Economics Department, Penn State, Fall.
- 1990 Presented paper, "Extensions of the Probit Model via Nonlinear Least Squares," at Econometrics Workshop, Department of Economics, University of Florida, May.
- 1990 Presented paper, "A Lagrange Multiplier Test of the Independence from Irrelevant Alternatives in Multinomial Choice Models," at Econometrics Workshop, Department of Economics, Penn State, November.
- 1990 Presented paper, "Extensions of the Probit Model via Nonlinear Least Squares," Department of Statistics, Penn State University, October.
- 1990 Presented paper, "A Lagrange Multiplier Test of the Independence from Irrelevant Alternatives in Multinomial Choice Models," Econometrics Workshop, Department of Economics, Penn State, December.
- 1993 Presented paper, "Multivariate Probit Estimation via Seemingly Unrelated Nonlinear Regression," Department of Economics, Lehigh University, May.
- 1993 Presented paper, "Practical Issues in the Estimation of Models with Censored Samples," Miami University (Oxford, OH), May.

- 1994 Presented paper, "Endogenous Dummy Variables and Endogenous Switching in Exponential Conditional Mean Regression Models," in Economics Workshop, Penn State, March.
- 1994 Presented paper, "Endogenous Switching and Sample Selection in Exponential Conditional Mean Regression Models," Statistics Colloquium, Department of Statistics, The Pennsylvania State University, September.
- 1994 Presented paper, "An Estimator for Nonlinear Regression Models with Endogenous Switching and Sample Selection," SMU, October.
- 1994 Presented paper, "An Estimator for Nonlinear Regression Models with Endogenous Switching and Sample Selection," U. Texas, Arlington, October.
- 1994 Presented paper, "An Estimator for Nonlinear Regression Models with Endogenous Switching and Sample Selection," U. Texas, Austin, October.
- 1994 Presented paper, "An Estimator for Nonlinear Regression Models with Endogenous Switching and Sample Selection," LSU, October.
- 1995 Presented paper, "An Estimator for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of Arizona, January.
- 1995 Presented paper, "An Estimator for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of Georgia, March.
- 1995 Presented paper, "An Estimator for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of Virginia, April.
- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," The Pennsylvania State University, January.
- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of South Carolina, February.
- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," Research Triangle (University of North Carolina, Duke University, North Carolina State University), February.
- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of Florida, February.

- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of Nevada-Reno, March.
- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of California-Davis, March.
- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of Oregon, March.
- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," Indiana University, September.
- 1996 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," Ohio State University, October.
- 1996 Presented paper, "Exponential Regression with Endogenous Polychotomous Treatment Effects: GMM vs. Two-Stage Estimation," (with Cheryl Neslusan), University of Arizona, December.
- 1997 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," University of Miami, March.
- 1997 Presented paper, "FIML, Method of Moments, and Two-Stage Method of Moments Estimators for Nonlinear Regression Models with Endogenous Switching and Sample Selection," Johns Hopkins University, April.
- 1997 Presented paper, "A Common Structure for Multiple-Index Nonlinear Regression Models with Endogenous Switching," Penn State University, July.
- 1997 Presented paper, "A Common Structure for Multiple-Index Nonlinear Regression Models with Endogenous Switching," Lehigh University, October.
- 1997 Presented paper, "A Common Structure for Multiple-Index Nonlinear Regression Models with Endogenous Switching," Hong Kong University of Science and Technology, November.
- 1997 Presented paper, "A Common Structure for Multiple-Index Nonlinear Regression Models with Endogenous Switching," National Taiwan University, November.
- 1997 Presented paper, "Exponential Regression with Endogenous Polychotomous Treatment Effects: GMM vs. Two-Stage Estimation," (with Cheryl Neslusan),

Institute of Economics, Academia Sinica (Taiwan), November.

- 1998 Presented paper, "A Common Structure for Multiple-Index Nonlinear Regression Models with Endogenous Switching," University of Miami, February.
- 1998 "Analyzing the Effects of Public Policy Using Nonexperimental Data: Applications in Health Economics," 43rd Alex McKenna Lecture, St. Vincent College, November.
- 1998 "Analyzing the Effects of Public Policy Using Nonexperimental Data: Applications in Health Economics," Health Services Research Colloquium, Penn State University, November.
- 1999 Presented paper, "A Unified Approach to Cross-Sectional Health Econometric Models with Endogenous Switching," NIDA Center for the Study of Prevention through Innovative Methodology, Penn State University, March.
- 1999 Presented paper, "Health Econometric Models with Endogenous Switching: A Unifying Structure," Population Research Institute, Penn State University, September.
- 2000 Presented paper, "Health Econometric Models with Endogenous Switching: A Unifying Structure," Virginia Tech University, February.
- 2000 Presented paper, "Alcohol Abuse and Employment Outcomes: Assessing the Potential Effects of Policy and Intervention," University of Iowa, April.
- 2000 Presented paper, "Alcohol Abuse and Employment Outcomes: Assessing the Potential Effects of Policy and Intervention," Center for Research on Crime and Justice, Penn State University, April.
- 2000 Presented paper, "Health Econometric Models with Endogenous Switching: A Unifying Structure," RAND Corporation, Santa Monica, CA, August.
- 2000 Presented paper, "Favorable Selection and Cost Containment by Medicare HMOs: A Two-Part Model of Fee-for-Service Costs with Endogenous Enrollment," Georgia State University, October.
- 2002 Presented paper, "Econometric Analysis of Prenatal Advice as a Preventive Measure for Fetal Alcohol Syndrome," (with Don Kenkel, Tsui Fang Lin, and Shinichi Sakata), Cornell University, November.
- 2002 Presented paper, "Econometric Analysis of Prenatal Advice as a Preventive Measure for Fetal Alcohol Syndrome," (with Don Kenkel, Tsui Fang Lin, and Shinichi Sakata) Applied Microeconomics Workshop, Dept. of Economics, Penn State University, December.

- 2002 Presented paper, "Econometric Analysis of Prenatal Advice as a Preventive Measure for Fetal Alcohol Syndrome," (with Don Kenkel, Tsui Fang Lin, and Shinichi Sakata) University of Arizona, December.
- 2003 Presented paper, "Empirical Approaches to the Rational Addiction Model: Dealing with Nonlinearity and Endogeneity," University of Chicago, March.
- 2003 Presented paper, "Econometric Analysis of Prenatal Advice as a Preventive Measure for Fetal Alcohol Syndrome," (with Don Kenkel, Tsui Fang Lin, and Shinichi Sakata), National Institute on Drug Abuse, Center for the Study of Prevention through Innovative Methodology, Penn State University, March.
- 2003 Presented paper, "Econometric Analysis of Prenatal Advice as a Preventive Measure for Fetal Alcohol Syndrome," (with Don Kenkel, Tsui Fang Lin, and Shinichi Sakata), Medical University of South Carolina, June.
- 2003 Presented paper, "A New Statistical Method for Estimating the Net Public Health Impact of Increased Access to Nicotine Delivery Alternatives," Center for Health Economic and Policy Studies, Medical University of South Carolina, October.
- 2004 Presented paper, "Policy Analysis with Nonexperimental Data: Endogenous Regressors in Parametric Nonlinear Models," Center for Health Economic and Policy Studies, Medical University of South Carolina, April.
- 2004 "Toward Causally Interpretable Cost-Benefit Analyses of Prevention and Treatment Programs for Substance Abuse," Center for Health Economic and Policy Studies, Medical University of South Carolina, August.
- 2004 Presented paper, "Parametric Methods for Analyzing Health Policy with Nonexperimental Data," Department of Health Policy and Administration, Penn State University, November.
- 2004 Presented paper, "Parametric Methods for Analyzing Health Policy with Nonexperimental Data," The Peter Lamy Center on Drug Therapy and Aging, University of Maryland School of Pharmacy, November.
- 2005 Presented paper, "Econometric Analysis of Prenatal Advice as a Preventive Measure for Fetal Alcohol Syndrome," (with Don Kenkel, Tsui Fang Lin, and Shinichi Sakata), Georgia Institute of Technology, Department of Economics, January.
- 2005 Presented paper, "Assessing the Impact of Substance Abuse on Employment Status," West Virginia University, School of Medicine, Department of Community Medicine, January.
- 2005 Presented paper, "Assessing the Impact of Substance Abuse on Employment Status," University of Florida, College of Medicine, Department of Epidemiology

and Health Policy, February.

- 2005 Presented paper, "Econometric Analysis of Prenatal Advice as a Preventive Measure for Fetal Alcohol Syndrome," (with Don Kenkel, Tsui Fang Lin, and Shinichi Sakata), Clemson University, Department of Economics, February.
- 2005 Presented paper, "Assessing the Impact of Substance Abuse on Employment Status," The Ohio State University, School of Medicine, Center for Health Outcomes and Policy Evaluation Studies, February.
- 2005 Presented paper, "An Econometric Framework for Analyzing Health Policy with Nonexperimental Data," University of South Carolina, Department of Economics, February.
- 2005 Presented paper, "Assessing the Impact of Gaps in Prescription Drug Coverage of Medicare Beneficiaries," Robert Wood Johnson Foundation Health Care Financing and Organization Initiative, AcademyHealth, Washington DC, May.
- 2005 Presented paper, "More Ado About Two: Endogenous Switching, Sample Selection, Endogenous Treatment Effects and the Modified Two-Part Model," 6th International Conference on Health Policy Research: Methodological Issues in Health Services and Outcomes Research, Invited Session on Selection Bias, Boston, MA, October.
- 2006 Presented paper, "Measuring the Public Health Impact of Potential Reduced Exposure Products (PREPs) for Smoking Harm Reduction: A Policy-Analytic Estimation Approach," Prevention Effectiveness and Health Economics seminar series of Prevention Effectiveness and Health Economics Branch, Centers for Disease Control and Prevention, Atlanta, GA, August.
- 2006 Presented paper, "More Ado About Two: Sample Selection, Endogenous Treatment Effects and the Modified Two-Part Model," Drexel University, Department of Economics, October.
- 2006 Presented paper, "More Ado About Two: Sample Selection, Endogenous Treatment Effects and the Modified Two-Part Model," University of Florida, Department of Economics, November.
- 2007 Presented paper, "Do Large Gaps in Prescription Coverage for Medicare Beneficiaries Matter Beyond the Obvious Fact that they Reduce Generosity of Coverage?" (with Bruce Stuart and Lirong Zhao) Robert Wood Johnson Foundation Health Care Financing and Organization Initiative, AcademyHealth, Washington DC, April.
- 2007 "Confounding and the Estimation of Causal Effects Using Observational Data" Lecture - Introduction to Clinical/Translational Research, University of Florida, College of Medicine, August.

- 2007 "Analyzing the Economic Causes and Consequences of Substance Abuse Using Observational Data" Addictive & Health Behaviors Research Institute, University of Florida, November.
- 2007 Presented paper, "Marginal and Incremental Effects in Parametric Nonlinear Models with Endogenous Regressors," Department of Economics, University of South Florida. December.
- 2008 Presented paper, "Parametric Regression and Health Policy Analysis: Survey-Based Estimation and Inference in the Presence of Endogeneity," Department of Public Administration and Policy, University of Georgia, January.
- 2008 Presented paper, "Parametric Regression and Health Policy Analysis: Survey-Based Estimation and Inference in the Presence of Endogeneity," Department of Health Policy and Management, Emory University, February.
- 2008 Presented paper, "Parametric Regression and Health Policy Analysis: Survey-Based Estimation and Inference in the Presence of Endogeneity," Department of Management and Marketing, University of Alabama, April.
- 2008 Presented paper, "Parametric Regression and Health Policy Analysis: Estimation and Inference in the Presence of Endogeneity," Department of Economics, University of North Carolina - Greensboro, September.
- 2008 Presented paper, "Parametric Regression and Health Policy Analysis: Estimation and Inference in the Presence of Endogeneity," Department of Health Services Research, University of Rochester, October.
- 2008 Presented paper, "Parametric Regression and Health Policy Analysis: Estimation and Inference in the Presence of Endogeneity," School of Pharmacy, University of Southern California, November.
- 2008 Presented paper, "Parametric Regression and Health Policy Analysis: Estimation and Inference in the Presence of Endogeneity," Department of Economics, University of Georgia, December.
- 2011 Presented paper, "Parametric Regression and Health Policy Analysis: Estimation and Inference from a Potential Outcomes Perspective," School of Public and Environmental Affairs, Indiana University, February.
- 2011 Presented paper, "Parametric Regression and Health Policy Analysis: Estimation and Inference from a Potential Outcomes Perspective," Triangle Health Economics Workshop, University of North Carolina at Chapel Hill, April.
- 2011 Presented paper, "Parametric Regression and Health Policy Analysis: Estimation and Inference from a Potential Outcomes Perspective," School of Public Health,

Drexel University, June.

- 2011 Presented paper, “Estimation, Inference and Empirical Health Policy Analysis in the Two-Part Modeling Context: A Piece of Cake?” Institute for Pharmaceutical Outcomes and Policy, University of Kentucky, November.
- 2012 Presented paper, “Estimation, Inference and Empirical Health Policy Analysis in the Two-Part Modeling Context: A Piece of Cake?” Department of Economics, University of Kentucky, January.
- 2012 Presented paper, “Estimation, Inference and Empirical Health Policy Analysis in the Two-Part Modeling Context: A Piece of Cake?” Department of Economics, Georgia State University, March.
- 2012 Presented paper, “Health Policy Analysis and Unobserved Confounding: Accounting for Endogeneity in Nonlinear Models” Division of Nursing Business and Health Systems, University of Michigan, April.
- 2012 Presented paper, “Estimation, Inference and Empirical Health Policy Analysis in the Two-Part Modeling Context: A Piece of Cake?” Department of Economics, Indiana University – Purdue University -- Indianapolis, May.
- 2012 Presented paper, “One More Slice of Cake: The Two Part Model Revisited” Division of Nursing Business and Health Systems, University of Michigan, May.
- 2012 Presented paper, “An Econometric Framework for Causal Analysis of Obesity Policy Alternatives” Department of Economics, Indiana University – Purdue University -- Indianapolis, October.
- 2013 Presented paper, “Empirical Health Policy Analysis: The Economic Causes and Consequences of Individual Energy Imbalance” College of Public Health, University of Georgia, February.
- 2013 Presented paper, “One More Slice of Cake: The Two Part Model Revisited” Department of Economics, Virginia Tech University, February.
- 2013 Presented Seminar, “Successful Employment and Quality Work Life After Severe Disability Due to Spinal Cord Injury” Center for Rehabilitation Research in Neurological Conditions, Medical University of South Carolina, March.
- 2013 Presented Seminar, “Empirical Health Policy Analysis: The Quest for Causal Inference – Methods and Applications,” VA Rehabilitation Outcomes Research Center, Gainesville, FL, May.
- 2013 Presented Seminar, “ Generalized Count Models with Sample Selection: Mothers’ Demand for Additional Children in a Developing Country and the “At God’s Will” Response – Part 1,” Health Economics Seminar, Department of Economics,

Indiana University Purdue University Indianapolis, August 23.

- 2013 Presented Seminar, “ Generalized Count Models with Sample Selection: Mothers’ Demand for Additional Children in a Developing Country and the “At God’s Will” Response – Part 2,” Health Economics Seminar, Department of Economics, Indiana University Purdue University Indianapolis, August 30.
- 2013 Presented Seminar, “Empirical Health Policy Analysis: The Quest for Causal Inference – Methods and Applications,” The Stroke Quality Enhancement Research Initiative, Roudebush Veterans Affairs Medical Center, Indianapolis, IN, September.
- 2013 Presented Seminar, “Methods for Empirical Health Policy Analysis: The Quest for Causal Inference Using Parametric Models,” Work in Progress Seminar, Roudebush Veterans Affairs Medical Center, Indianapolis, IN, October.
- 2013 Presented Seminar, “Methods for Empirical Health Policy Analysis: The Quest for Causal Inference Using Parametric Models,” Eli Lilly – Analytic Fusion Research Group, Indianapolis, IN, December.
- 2015 Presented Seminar, “Assessing the Impact of Lifestyle on Individual Energy Balance: Two-Stage Residual Inclusion Estimation Without Apology,” Department of Agricultural and Applied Economics, University of Georgia, February.
- 2015 Presented Seminar, “Cross Sectional Econometrics from a Policy Analytic Perspective,” Medical University of South Carolina, September.

Doctoral Student Supervision:

University of Georgia - Department of Economics

Ulrich Welland (econometrics) - Professor, University of Flensburg (Germany)

Penn State University - Department of Economics

Cheryl Neslusan (health economics, applied econometrics) – Director of Health Economics, Global Strategic Marketing and Market Access, Janssen Global Services, LLC, Raritan, NJ.

Andy Wen (Econometrics) decided to enter the Christian ministry after defending his dissertation.

Kerry Anne McGeary (health economics) – Senior Program Program Officer, Robert Wood Johnson Foundation, Research-Evaluation-Learning Unit.

Wei-Der Tsai (health economics, applied econometrics) – Professor and Director of the Graduate Institute of Industrial Economics, National Central University, Taiwan

Peter Vechnak (applied econometrics) – Senior Vice President, Quantitative Operations Manager, Bank of America, Charlotte, NC.

University of Florida - Department of Economics

Mujde Erten (applied econometrics, health economics) – Assistant Professor, Health Economist, Department of Surgery, University of Vermont.

University of North Carolina at Greensboro - Department of Economics (Co-Supervisor)

Matthew Rabbitt (applied econometrics, health economics) – Economist, Economic Research Service, United States Department of Agriculture.

Matthew Trombely (applied econometrics, health economics) – Senior Analyst, Abt Associates.

William Parish (applied econometrics, health economics) – Economist, Research Triangle Institute.

Indiana University Purdue University Indianapolis - Department of Economics

Srikant Deveraj (applied econometrics, health economics) – Research Economist and Research Assistant Professor, Department of Economics and Center for Business and Economic Research, Ball State University.

Yan Yang (applied econometrics, health economics) – In progress.

Shichao Tang (applied econometrics, health economics) – In progress.

Zhuang Hao (applied econometrics, health economics) – In progress.

Master's Student Supervision:

Luz Lorenzo (applied econometrics)

Shao Ling Liu (applied econometrics)

Leonce Ndiokubwayo (applied econometrics)

Membership on Ph.D. and Master's Committees:

Economics (Penn State)

J. Bai, M.A.

K. Yoo, M.A.

M. Mawampanga, M.A.

Other Fields (Penn State)

G. J. Murage Gichuhi, Ph.D. (Ag. Econ)

Eva Petkova, Ph.D. (Statistics)

Anne F. Torbeyns, (Statistics)

Aloysius Amin, Ph.D.	Juan Timana, Ph.D. (Management Sci)
Kenneth Reynolds, Ph.D.	Jeun-Sheng Lin, Ph.D. (Ag. Econ)
Chun-Sheng Yang, Ph.D.	Kelly Grotzinger, Ph.D. (HPA)
Jane Lay, Ph.D.	Paniotis Fousekis, Ph.D. (Ag. Econ)
Joyce Mlakar, Ph.D.	Man Liu, M.A. (Acctg)
Flora Sambakunsi, M.A.	Christopher Van Den Bulte, Ph.D. (MIS)
Asep Suryahadi, M.A.	Charlotte Pryor, Ph.D. (Acctg)
Ryan Rademacker, M.A.	Violet Torby (Finance)
Guoqing Wang, M.A.	Michele LaPlante (Finance)
Hyojong Kim, Ph.D.	Jianan Wu, Ph.D. (Marketing)
Seog-Kyeong Han, M.A.	James Mahar, Ph.D. (Finance)
Julie Kraut, Ph.D.	Patricia Wollen, Ph.D. (Finance)
Tian Zeng, Ph.D.	Kaan Tunceli, Ph.D. (Health Policy and Administration)
Gerald Fennemore, Ph.D.	
Seog-Kyeong Han, M.A.	
Ernesto Perusquia, M.A.	
Shawn Klimek, Ph.D.	
Artyem Durnev, M.A.	
In Kyu Kim, M.A.	
Mirela Marasteanu, M.A.	
Jose Carvalho, Ph.D.	
Guang Guo, Ph.D.	
Qiong Zhou, Ph.D. (U. of Florida)	

Refereeing:

Academia Economic Papers
Addiction
Alcohol and Alcoholism
American Economic Review
American Sociological Review
Bulletin of Economic Research
Communications in Statistics
Contemporary Economic Policy
Demography
Economic Development and Cultural Change
Econometric Reviews
Empirical Economics
Econometrics Journal
Econometric Theory
International Economic Review
International Journal of Forecasting
Health Economics
Health Economics Letters
Health Services Research
Health Services and Outcomes Research Methodology
Journal of the American Medical Association

Journal of the American Statistical Association
Journal of the American Real Estate and Urban Economics Association
Journal of Applied Econometrics
Journal of Business and Economic Statistics
Journal of Econometrics
Journal of Econometric Methods
Journal of Environmental Economics and Management
Journal of Health Economics
Journal of Productivity Analysis
Medical Care
Population Economics
Resources and Energy
Review of Economics and Statistics
Southern Economic Journal
Statistical Papers
Transportation Science.