

## **CURRICULUM VITAE**

Mark E. Votruba, Ph.D., Economics

### **PERSONAL INFORMATION**

Professional address and telephone: Economics Department, PBL#261  
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### **PRESENT ACADEMIC RANK AND POSITION**

Assistant Professor of Economics  
Weatherhead School of Management  
Case Western Reserve University

Assistant Professor of Medicine  
Director of Health Economics Unit, Center for Health Care Research & Policy  
MetroHealth Medical Center and Case Western Reserve University

### **EDUCATION**

Princeton University  
Ph.D. in Economics, 2003  
M.A. in Economics, 1999

Harris School of Public Policy Studies  
University of Chicago  
M.A. in Public Policy, 1995

Centre College of Kentucky  
B.S. in Mathematics, 1992

### **RESEARCH INTERESTS**

Health Economics: Allocation of Medical Resources, Incentives for Care, Insurance Markets

Public Economics: Social Program Participation, Social Interactions Effects

### **HONORS AND AWARDS**

Woodrow Wilson Fellowship, Princeton University, 2000-2002

Industrial Relations Section Fellowship, Princeton University, 1997-2000

Dean's Fellowship, University of Chicago, Harris School, 1993-1995

Phi Beta Kappa, Centre College, 1991-1992

Centre Trustee Scholar, Centre College, 1988-1992

Thomas J. Watson Scholar, Centre College, 1988-1992

### **EDUCATION/TEACHING**

Professor, *Health Care Economics (ECON 378)*, Case Western Reserve University, Fall 2002, Spring 2004, Spring 2005, Spring 2006, Fall 2006.

Professor, *Public Finance (ECON 342)*, Case Western Reserve University, Fall 2003, Fall 2004, Fall 2005, Fall 2006.

Professor, *Health Economics and Strategy (ECON 421)*, Case Western Reserve University, Spring 2003.

Teaching Assistant for Professor Orley Ashenfelter, Princeton University, *Econometrics: A Mathematical Approach*, Spring 2000.

Teaching Assistant for Professor Jeffrey Kling, Princeton University, *Public Finance*, Fall 1999.

Teaching Assistant for Professor Donald Coursey, University of Chicago, Harris School, *Statistical Methods for Policy Research I*, Winter 1995.

Teaching Assistant for Professor Duncan Snidal, University of Chicago, Harris School, *Formal Models of Policy Analysis*, Fall 1994.

### **GRADUATE STUDENTS/POSTDOCTORAL FELLOWS**

Alexander Tsai, PhD Dissertation Committee, School of Medicine, Case Western Reserve University, 2003-2004

### **UNDERGRADUATE STUDENTS (HONORS THESIS ADVISOR)**

Joshua Shaw (2007), William Hedberg (2006), Robert Arons (2005), David Zeigler (2005), Ariel Klein (2005), Ryan Conrad (2004), Jeffrey Filipink (2003).

### **PROFESSIONAL SERVICE**

Referee: *American Economic Review*, *Quarterly Journal of Economics*, *Review of Economics and Statistics*, *Industrial and Labor Relations Review*, *Industrial Relations*, *Journal of Business and Economic Statistics*, *Journal of Development Economics*, *Medical Care*, *Journal of General Internal Medicine*, *American Journal of Preventive Medicine*, *Medical Care*, *Medical Decision Making*, *Science*

Grant application external reviewer: National Science Foundation, 2007.

External Reviewer: Institute of Medicine, Establishing a National Hematopoietic Stem Cell Bank Program, 2005.

Grant application external reviewer: Alberta Heritage Foundation for Medical Research, 2005.

### **PROFESSIONAL AND SOCIETY MEMBERSHIPS**

Member: American Economic Association, International Health Economics Association, American Society of Health Economists, Midwest Economics Association, Society for Medical Decision Making

### **INSTITUTIONAL, DEPARTMENTAL, AND DIVISIONAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS, AND OTHER ACTIVITIES**

Director, Health Economics Unit, Center for Health Care Research & Policy, 2003-

Organizer and primary presenter in CHRP seminar series "Economics Paradoxes in Health Care," 2003-2004

Seminar invitation committee, Department of Economics, 2005-

Undergraduate Economics Honor Society (ODE) faculty representative, 2002-2006

### **PRESENTATIONS AT NATIONAL MEETINGS**

"Social Interaction Effects in Disability Pension Participation: Evidence from Plant Downsizing," Southern Economics Association Annual Meeting, Charleston SC, 11/18/2006.

"Insurance Turnover as an Impediment to Improving Health Care Quality," American Society of Health Economists Inaugural Conference, Madison, 6/5/2006.

"The Effect of Plant Downsizing on Disability Pension Utilization," Midwest Economics Association Annual Meeting, Chicago, 3/24/2006.

"Hospital Volume, Outcomes, and Costs of Stroke Care in a Regional Market," Society for Medical Decision Making annual meeting, Atlanta, 10/18/2004.

### **PRESENTATIONS AT INTERNATIONAL MEETINGS**

"Efficiency-Equity Tradeoffs in Allocating Cadaveric Kidneys based on Antigen Match," International Health Economics Association 5<sup>th</sup> World Congress, Barcelona, 7/12/2005.

"Case for Age Discrimination in the Allocation of Cadaveric Kidneys," Society for Clinical Epidemiology and Health Care Research annual meeting, Vancouver, 5/2/2003.

### **INTRAMURAL PRESENTATIONS**

"A Primer on Instrumental Variables and the Controversial Evidence Linking Television Watching to Autism," Center for Health Care Research & Policy, Cleveland, OH, 5/4/2007.

"Are We Getting What We Pay For? A Critical Look at U.S. Health Care Costs and Health Outcomes," guest lecturer for Public Health Management and Policy (MPHP 439), Case Western Reserve University, 2/6/2007.

"Efficiency-Equity Tradeoffs in the Allocation of Cadaveric Kidneys," Center College, 10/23/2006.

"Economic Issues in Preventive Care and Disease Management," guest lecturer for Bench to Bedside, Back and Beyond (CRSP 408), School of Medicine, Case Western Reserve University, 9/16/2005.

"An Introduction to Health Economics," guest lecturer for Introduction to Clinical Research (CRSP 401), School of Medicine, Case Western Reserve University, 7/21/2003, 7/22/2004, 8/22/2005, 7/17/2007.

“Social Interaction Effects in Disability Insurance Use: Preliminary Evidence from Norway,” Princeton Labor Lunch, Princeton University, 1/13/2005.

“Results from Survey of Economists on Issues Relevant to the Presidential Election,” Lunchtime Economic Seminar Series (LESS) at Case, Cleveland, OH, 10/27/2004.

“Socioeconomic influences and policy-related economics of health care delivery,” guest lecturer for Health Disparities (EPBI 510), School of Medicine, Case Western Reserve University, 10/25/2004.

“Social Interaction Effects in Disability Insurance Use: Preliminary Evidence from Norway” (with Mari Rege), Lunchtime Economic Seminar Series (LESS) at Case, Cleveland, OH, 10/12/2004.

“What Can HLA Matching in Kidney Allocation Policy Tell Us about the Social Welfare Function?” Center for Health Care Research & Policy, Cleveland, OH, 5/26/2004.

“What Kidney Allocation Policy Can Teach Us about Society’s Willingness to Tradeoff Efficiency for Equity,” Lunchtime Economic Seminar Series (LESS) at Case, Cleveland, OH, 4/22/2004.

“How Can Health Economics Help Us Think About Organ Allocation Policy?” MetroHealth Medical Center, Pulmonary & Critical Care Division, Cleveland, OH, 04/16/2004.

“The Insurance Paradox,” Center for Health Care Research & Policy, Cleveland, OH, 11/21/2003.

“Are We Getting What We Pay For? A Critical Look at U.S. Health Care Costs and Health Outcomes,” MetroHealth Medical Center Grand Rounds, Cleveland, OH, 11/06/2003.

“Are We Getting What We Pay For? A Critical Look at U.S. Health Care Costs and Health Outcomes,” Center for Health Care Research & Policy, Cleveland, OH, 10/31/2003.

“Efficiency-Equity Tradeoffs in Allocation of Cadaveric Kidneys,” guest lecturer for Dena Davis, Marshall School of Law, Cleveland State University, 10/1/2003.

“A Proposal for Investigating Social Interaction Effects in Disability Insurance Use” (with Mari Rege), Lunchtime Economic Seminar Series (LESS) at Case, Cleveland, OH, 09/30/2003.

“An Introduction to Health Economics for Health Services Researchers,” Center for Health Care Research & Policy, Cleveland, OH, 09/26/2003.

“Effect of Social Security on Retirees’ Decision to Work,” Lunchtime Economic Seminar Series (LESS) at Case, Cleveland, OH, 10/24/2002.

“Effect of Social Security on the Income, Work and Health of Retirees: An Application of Administrative Formulas as Instruments,” Center for Health Care Research & Policy, Cleveland, OH, 10/04/2002.

## **RESEARCH GRANTS AWARDED**

Presidential Research Initiative, Case Western Reserve University

Title: “Impediments to Improving Health Care Quality: The Role of Insurance Turnover Rates” (with James Rebitzer and Randall Cebul)

Objective: Theoretic and empirical analysis of the causes and consequences of member turnover in health insurance plans.

Role: Co-Principal Investigator (with Randall Cebul and James Rebitzer)

Dates: 8/1/2005-7/31/2007

Amount: \$120,000

Agency for Healthcare Research and Quality (R01-HS15123)

Title: “Trial of Decision Support to Improve Diabetes Outcomes”

Objective: Evaluate impact of electronic decision support and disease management tools designed to improve care for diabetic patients.

Role: Investigator, head of economic evaluation group (PI: Randall Cebul)  
Dates: 10/1/2004-9/30/2007  
Amount: \$1,499,645

National Science Foundation  
Title: "Social Interaction and Disability Benefits"  
Objective: Employ instrumental variables strategy to estimate the effect of disability insurance participation rates with one's neighborhood on individual entry rates.  
Role: Co-Principal Investigator (with Mari Rege)  
Dates: 7/1/2004-6/30/2006  
Amount: \$179,929

Norwegian Research Council Grant  
Title: "Social Interactions and Welfare Participation"  
Objective: Employ instrumental variables strategy to estimate the effect of disability insurance participation rates with one's neighborhood on individual entry rates.  
Role: Co-Principal Investigator (with Mari Rege)  
Dates: 1/1/2004-12/31/2005  
Amount: \$240,000

Walter Nord Grant, UCITE, Case Western Reserve University  
Title: "Economic Paradoxes in U.S. Health Policy"  
Objective: Develop new course in health care economics specifically designed to meet the needs of medical students interested in health services research.  
Role: Principal Investigator  
Dates: 7/1/03-6/30/04  
Amount: \$10,000

Steven H. Sandell Grant, Center for Retirement Studies at Boston College  
"Social Security and the Timing of Retirement"  
Objective: Investigate the impact of Social Security benefit size on the timing of retirement.  
Role: Principal Investigator  
Dates: 7/1/03-6/30/04  
Amount: \$20,000

## **PUBLICATIONS**

### Publications

Tsai, Alexander C., Mark Votruba, John F. P. Bridges and Randall D. Cebul (2006), "Overcoming Bias in Estimating the Volume-Outcome Relationship," *Health Services Research* 41(1): 252-264.

Votruba, Mark and Randall Cebul (2006), "Redirecting Patients to Improve Stroke Outcomes: Implications of a Volume-Based Approach in One Urban Market," *Medical Care* 44(12): 1129-1136.

Bailit, Jennifer and Mark Votruba (2007), "Medical Cost Savings Associated with 17 Alpha Hydroxyprogesterone Caproate," *American Journal of Obstetrics and Gynecology* 196(3): 219.e1-e7.

Katzan, Irene L., Neal V. Dawson, Charles L. Thomas, Mark E. Votruba and Randall D. Cebul (2007), "The cost of pneumonia after acute stroke," *Neurology* 68: 1938-1943.

### Works in Submission

"The Effect of Plant Downsizing on Disability Pension Utilization," with Mari Rege and Kjetil Telle, Statistics Norway Discussion Paper #435. (In revision for *Journal of European Economics Association*.)

“Social Interaction Effects in Disability Pension Participation: Evidence from Plant Downsizing,” with Mari Rege and Kjetil Telle, Statistics Norway Discussion Paper #496.

“Effect of Neighborhood Characteristics on the Mortality of Male Black Youth: Evidence from Gautreaux” with Jeffrey Kling, Princeton University Industrial Relations Section Working Paper #491.

Publications – Abstracts, Editorials, Book Chapters

“The Case for Age Discrimination in the Allocation of Cadaveric Kidneys” (2003), *Journal of Clinical Epidemiology* 56(9): 923. (abstract)

Working Papers

“The Efficiency-Equity Tradeoffs of Antigen Matching in the Allocation Cadaveric Kidneys.”

“Results from Survey of Economists on Issues Relevant to the Presidential Election.”

“Social Security and Retirees’ Decision to Work,” Princeton University Center for Economic Policy Studies Working Paper #95.

“Effect of Plant Downsizing and Children’s Education Achievement,” with Mari Rege and Kjetil Telle.

“Effect of Plant Downsizing on Marital Dissolution: Evidence from Norway,” with Mari Rege and Kjetil Telle.

“Job Markets, Insurance Markets, and Investments in Health,” with James Rebitzer, Randall Cebul, Ray Hershman, and Lowell Taylor.