

## NOLAN H. MILLER

### **CONTACT INFORMATION:**

---

University of Illinois at Urbana-Champaign  
4033 Business Instructional Facility  
515 E. Gregory St, MC-520  
Champaign, IL 61820

Phone: (217) 244-2847  
Fax: (217) 244-3102  
nmiller@illinois.edu  
<http://www.business.illinois.edu/nmiller>

### **PRIMARY (CURRENT) POSITIONS:**

---

- June 2009 – present: Professor of Finance, Department of Finance, University of Illinois at Urbana-Champaign.
- January 2015 – present: Director, Center for Business and Public Policy.
- August 2011 – present: Julian Simon Faculty Fellow in the College of Business, University of Illinois at Urbana-Champaign.
- November 2013 – present: Professor of Economics (zero-time, by courtesy), Department of Economics, University of Illinois at Urbana-Champaign.
- Oct. 2009 – present: Research Associate, National Bureau of Economic Research Programs on Health Care Program and Environmental and Energy Economics (2012 – present), Faculty Research Fellow (2009 –2012)

### **OTHER ACADEMIC POSITIONS:**

---

- June 2009 – present: Research Associate, Center for Business and Public Policy, University of Illinois at Urbana-Champaign.
- May 2011 – present: Faculty Associate, Institute for Government and Public Affairs, University of Illinois.
- July 2004 – June 2009: Associate Professor of Public Policy, John F. Kennedy School of Government, Harvard University.
- July 1999 – June 2004: Assistant Professor of Public Policy, John F. Kennedy School of Government, Harvard University.
- 2001 – 2009: Faculty Associate, Center for International Development, Harvard University.
- 2002 – 2009: Faculty Associate, Mossavar-Rahmani Center for Business and Government, Harvard University.

## **EDUCATION:**

---

- 1999: Ph.D., Managerial Economics and Decision Sciences, J.L. Kellogg Graduate School of Management, Northwestern University, Evanston, Illinois.  
Dissertation Title: “Moral Hazard: Partnerships, Insurance, and Health Care.” Principal Advisor: Daniel Spulber.
- 1994: B.S. Economics, The Wharton School, University of Pennsylvania, Philadelphia, Pennsylvania. Summa Cum Laude.
- 1994: B.A. Philosophy, College of Arts and Sciences, University of Pennsylvania, Philadelphia, Pennsylvania. Summa Cum Laude.

## **PUBLISHED AND FORTHCOMING PAPERS (ACADEMIC):**

---

1. “Market Integration, Demand and the Growth of Firms: Evidence from a Natural Experiment in India,” with Robert Jensen (2018). Forthcoming, *American Economic Review*, December, 2018.
2. “Feeling it in your bones: A retrospective claims analysis of the association between rainfall and diagnoses of joint or back pain,” with Anupam B. Jena, Andrew R. Olenski, and David Molitor (2017). *British Medical Journal*, BMJ 2017;359:j5326.
3. “Solomonic Separation: Risk Decisions as Productivity Indicators,” with Alex Wagner and Richard Zeckhauser (2013). *Journal of Risk and Uncertainty*, June, 2013, **46**(3), 265-297.
4. “What Does Health Reform Mean for the Healthcare Industry? Evidence from the Massachusetts Special Senate Election,” with Mohamad Al-Ississ (2013). *The American Economic Journal: Economic Policy*, August, **5**(3), 1-29. NBER Working Paper w16193.
5. “Do Consumer Price Subsidies Really Improve Nutrition?” with Robert Jensen (2011). *The Review of Economics and Statistics*, November 2011, **93**(4): 1205-1223. NBER Working Paper W16102.
6. “Demanding Customers: Consumerist Patients and Quality of Care,” with Hai Fang, John Rizzo and Richard Zeckhauser (2011). *The B.E. Journal of Economic Analysis & Policy*: **11**(1), Article 59. DOI: 10.222/1935-1682.2966.
7. “Giffen Behavior and Subsistence Consumption,” with Robert Jensen (2008). *American Economic Review*, **98**(4), 1553-1577.

8. "The Impact of Food Price Increases on Caloric Intake in China," with Robert Jensen (2008). *Agricultural Economics*, **39**(S1), 465-476.
9. "Advertising Budgets in Competitive Environments," with Amit Pazgal (2007). *Quantitative Marketing and Economics*, **5**(2), 131-161.
10. "Mechanism Design with Multidimensional, Continuous Types and Interdependent Valuations," with Scott Johnson, John Pratt, and Richard Zeckhauser (2007). *Journal of Economic Theory*, **136**(1), 476-496.
11. "Provider Choice of Quality and Surplus," with Karen Eggleston and Richard Zeckhauser (2006). *International Journal of Health Care Finance and Economics*, **6**, 103-117.
12. "Insurer-Provider Integration, Credible Commitment, and Managed Care Backlash," (2006). *Journal of Health Economics*, **25**(5), 861-876.
13. "Possibly-Final Offers," with Nikita Piankov and Richard Zeckhauser (2006). *Journal of Economics and Management Strategy*, **15**(3), 789-819.
14. "Budget or Target: The Choice Between Input and Output Strategies," with Amit Pazgal (2006). *RAND Journal of Economics*, **37**(2), 391-415.
15. "Screening Budgets," with Alex Wagner and Richard Zeckhauser (2006). *Journal of Economic Behavior and Organization*, **61**(3), 351-374.
16. "Eliciting Informative Feedback: The Peer Prediction Method," with Paul Resnick and Richard Zeckhauser (2005). *Management Science*, **51**(9), September 2005, 1359-1373. Reprinted in *Computing with Social Trust and Reputation*, Jennifer Golbeck (Ed.), New York, NY: Springer (2008).
17. "Pricing Health Benefits: A Cost Minimization Approach," (2005). *Journal of Health Economics*, **24**(5), 931-949.
18. "Strategic Trade and Delegated Competition," with Amit Pazgal (2005). *Journal of International Economics*, **66**(1), 215-231.
19. "The Effects of Environmental Regulation on Technology Diffusion: The Case of Chlorine Manufacturing," with Lori D. Snyder and Robert N. Stavins. *American Economic Review* (Papers and Proceedings), **93**(2), 431-435.
20. "Relative Performance as a Strategic Commitment Mechanism," with Amit Pazgal (2002). *Managerial and Decision Economics*, **23**(2), 51-68.
21. "The Equivalence of Price and Quantity Competition with Delegation," with Amit Pazgal (2001). *RAND Journal of Economics*, **32**(2), 284-301.

22. “Efficiency in Partnerships with Joint Monitoring,” (1997). *Journal of Economic Theory*, 77 (2), 285-299.

## **WORKING PAPERS**

---

23. “Adaptation and the Mortality Effects of Temperature Across US Climate Regions,” with Garth Heutel and David Molitor (2017), NBER Working Paper 23271. Revise and Resubmit, *Review of Economics and Statistics*.
24. “The Mortality and Medical Costs of Air Pollution: Evidence from Changes in Wind Direction,” with Tatyana Deryugina, Garth Heutel, David Molitor and Julian Reif (2017), NBER Working Paper 22796. Revise and Resubmit, *American Economic Review*.
25. “Keepin’ Em Down on the Farm: Old Age Security and Strategic Underinvestment in Education,” with Robert Jensen. (2017), NBER Working Paper 23122.
26. “Blowing Smoke: Health Impacts of Wildfire Plume Dynamics,” with David Molitor and Eric Zou (2018).
27. “Why Does Disability Increase During Recessions? Evidence from Medicare,” with Colleen Carey and David Molitor.
28. “A Revealed Preference Approach to Measuring Hunger and Undernutrition,” with Robert Jensen (2012). NBER Working Paper w16555.
29. “Competitive Sales Force Allocation: A Theoretical and Experimental Analysis,” with Noah Lim and Amit Pazgal (2015).
30. “Risk Framing, Bright-Lines, and Relative Risk: Impacts on Perceptions of Risk from Arsenic in Groundwater,” with Lori S. Benneer and Madeleine Baker-Goering (2013).
31. “Outcome Commitments in Third-Party Intervention: Theory and Application to U.S. Policy in Iraq.” (2009) KSG Working Paper 08-041.

## **OTHER PUBLICATIONS**

---

“A Taste Test for Hunger,” with Robert Jensen, *The New York Times*, July 10, 2011, p. SR 12. Available at <http://www.nytimes.com/2011/07/10/opinion/sunday/10gray.html>

## **WORK IN PROGRESS**

---

“Local Economic Conditions and the Health of SSDI Recipients: Evidence from Medicare,” with Colleen Carey and David Molitor (2018).

“The Role of Information Framing in Environmental Health Policy: Field and Laboratory Experiments,” with Lori Benneer (Duke University).

*Applied Microeconomic Theory* (textbook), with Chris Avery.

## **GRANTS, FELLOWSHIPS AND AWARDS**

---

2016-2017	Illinois Student Government Teaching Excellence Award.
2016-2021	“The Impact of Temperature and Pollution on Mortality, Morbidity and Health Care Cost Among the Elderly,” National Institute on Aging, \$1.6M total funding.
2011-2016	List of Teachers Ranked as Excellent by Their Students, University of Illinois at Urbana-Champaign (various courses including FIN 501, FIN 580/ECON 500).
2009:	Manuel C. Carballo Award for Excellence in Teaching, John F. Kennedy School of Government, Harvard University.
2007:	Investigator, “The Role of Information in Environmental Health Policy.” Funding from Mossavar-Rahmani Center for Business & Government, The Harvard University Center for the Environment, and the Harvard Kennedy School Dean’s Research Fund.
2005 – 2006:	Investigator, “Consumption, Nutrition, and Health among the Ultra-Poor.” Funding from William H. Milton Fund, Harvard Medical School, the Hefner China Fund, the Harvard Center for International Development, and the Harvard Kennedy School Dean’s Research Fund.
2003 – 2004:	Investigator, “Ownership and Contracting for Quality Health Care,” with Richard Zeckhauser (Principal Investigator) and Karen Eggleston, Agency for Healthcare Research and Quality.
2002 – 2005:	Investigator, “Regulating Pollution Through Information Disclosure: Facility Response to the Toxics Release Inventory,” with Lori Snyder and Rob Stavins (Principal Investigator), Environmental Protection Agency, 2002 – 2005.

- 1998: State Farm Companies Foundation Doctoral Dissertation Award in Insurance, 1998.
- 1997 – 1998: University Fellowship, Kellogg Fellowship, Northwestern University.
- 1994 – 1997: National Science Foundation Graduate Research Fellowship.
- 1994: Honorary Mellon Fellow in Humanistic Studies.
- 1994: Rose Undergraduate Research Award, University of Pennsylvania,
- 1994: Beta Gamma Sigma.
- 1993: Phi Beta Kappa, Junior Selectee.

#### **SELECTED UNIVERSITY/DEPARTMENTAL SERVICE**

---

- 2016 – present: Member, U. of Illinois Urbana-Champaign Academic Senate Committee on Education Policy
- 2013-14, 2017-18: Member, Department of Finance Executive Committee
- 2016 – 2018: Member, College of Business Executive Committee
- 2016 – 2017: Chair, External Search Committee for a Head of the Department of Business Administration
- 2015-2016: Member, Campus Budget Advisory Task Force
- 2014-2016: Member, U. of Illinois at Urbana-Champaign Academic Senate
- 2014-2015: Member, Senate Budget Committee
- 2014 – present Member, College of Business Academic Integrity Committee (chair, 2014-2015, 2016-2017)

#### **OTHER PROFESSIONAL ACTIVITIES**

---

- January 2009 – 2012: Editor, *Berkeley Electronic Journal in Economic Analysis and Policy*.
- March 2008 – 2012: Associate Editor, *Berkeley Electronic Journals in Theoretical Economics*.
- June 2008 – 2012: Associate Editor, *Review of Economics and Statistics*.
- Member: *American Economic Association, Society for the Promotion of Economic Theory, Econometric Society, American Society of Health Economists (ASHEcon), International Health Economics Association (iHEA)*.
- Referee: *The American Economic Review, American Economic Journal: Applied Economics, Berkeley Electronic Journals (Theoretical Economics, Economic Analysis and Policy), Economic Inquiry, Econometrica, Games and Economic Behavior, International*

*Economic Review, Journal of Economic Education, The Journal of Economic Theory, The Journal of Economics and Management Strategy, The Journal of Health Economics, Journal of Political Economy, Managerial and Decision Economics, Management Science, The Quarterly Journal of Economics, The RAND Journal of Economics, The Review of Economics and Statistics, The Review of Economic Studies, more.*

## **TEACHING EXPERIENCE**

---

Intermediate Microeconomics, Honors (College of Business Honors Program, University of Illinois at Urbana-Champaign).

Financial Economics (M.S. Finance program, M.S. Financial Engineering program, University of Illinois at Urbana-Champaign).

General Economic Theory (Ph.D. course for doctoral students in the college of business, Ph.D.-track master's students in the department of economics, University of Illinois at Urbana-Champaign)

Microeconomic Theory I/II (Ph.D. course in microeconomics. Kennedy School/Economics Department/Harvard Business School, Harvard University).

Advanced Microeconomic Analysis (MPA/ID, Kennedy School, Harvard University).

Game Theory and Strategy (KSG Executive Programs).

Managerial Economics (MBA program, Kellogg School, Northwestern University).

Math review (Executive MBA program, Kellogg School, Northwestern University).

## **DOCTORAL STUDENTS SUPERVISED**

---

Eric Y. Zou (chair), Department of Economics, 2014-2017

Jason Huh (chair), Department of Economics, 2014-2016. First Placement: Rensselaer Polytechnic Institute

In Do Hwang (member), Department of Economics, 2015-2016, First Placement: Bank of Korea

Christine Jachetta (co-chair), Department of Economics, 2014-2016, First Placement: Center for Naval Analysis

## **TEACHING MATERIALS**

---

*Notes on Microeconomic Theory.* A 250 page manuscript on advanced microeconomics intended to make doctoral-level microeconomic theory accessible to students with interests in

applied fields of microeconomics (such as public policy, development, business fields, health policy, etc.). Available for download at: <http://www.business.illinois.edu/nmiller/notes>.

*Applied Microeconomic Theory.* The notes above form the first half of a textbook that Chris Avery and I are currently writing. The goal of the text is to provide a text for students of advanced microeconomics who are not going to be economic theorists. This would include students in economics departments who are going to study empirical labor or public finance, as well as students in related graduate programs such as public policy, health policy, business, or political science. The text aims at being mathematically rigorous while at the same time emphasizing intuition and application rather than theoretical generality for its own sake. Drafts of all chapters have been written, and we are in the process of signing a book contract with Harvard University Press.