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Department of Health Policy and Management  
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## **Employment**

### *Columbia University*

August 2005–Present. Assistant Professor. Department of Health Policy and Management, Mailman School of Public Health, and (by courtesy) the School of International and Public Affairs.

Faculty Affiliate, The Robert Wood Johnson Health and Society Scholars Program  
Faculty Affiliate, Institute for Social and Economic Policy Research and Policy (ISERP)

### *University of Michigan*

August 2003–August 2005. Robert Wood Johnson Foundation Scholar in Health Policy Research. Department of Health Management and Policy, School of Public Health.

### *Georgia Institute of Technology*

August 2001–August 2005. Assistant Professor. School of Public Policy.

## **Education**

### *Columbia University*

2001. Ph.D. Economics, with Distinction.

2000. M.Phil. Economics.

1998. M.A. Economics.

1996. B.A. Economics–Political Science.

## **Awards**

2007. Robert Wood Johnson Foundation Investigator Award In Health Policy Research

2002-3. Faculty Member of the Year Teaching Award (School of Public Policy, Georgia Institute of Technology)

2001-2. Faculty Member of the Year Teaching Award (School of Public Policy, Georgia Institute of Technology)

2001. Dissertation “Essays on the Economics of University Patenting” Awarded Distinction (Columbia University, Graduate School of Arts and Sciences)

1996. Sanford Parker Award in Economics. (Columbia College, Columbia University)

1996. B.A. awarded with honors, summa cum laude. Elected to Phi Beta Kappa. (Columbia College, Columbia University)

## **Publications**

### Books

David C. Mowery, Richard R. Nelson, Bhaven N. Sampat, and Arvids A. Ziedonis. 2004. *Ivory Tower and Industrial Innovation: University– Industry Technology Transfer Before and After Bayh-Dole*. Stanford: Stanford University Press.

### Articles

“When Do Patent Applicants Search for Prior Art?” 2010. Forthcoming, *Journal of Law and Economics*

"Applicant Citations, Examiner Citations, and the Private Value of Patents" 2009 (with Deepak Hegde) *Economics Letters* 5(3): 287-289.

“Academic Patents and Access to Medicines in Developing Countries” 2009. *American Journal of Public Health* 99: 9-17.

“Applicant and Examiner Citations in U.S. Patents: An Overview and Analysis” 2009 (with Juan Alcacer and Michelle Gittleman) *Research Policy* 38(2): 415-27.

“University Software Ownership and Litigation: A First Examination” 2009 (with Arti Rai and John Allison) *87 North Carolina Law Review* 101

“Is the Patent Office a Rubber Stamp?” (with Mark Lemley) 2008. *Emory Law Journal* 58(1): 415-27.

“Is Bayh–Dole Good for Developing Countries? Lessons From the U.S. Experience” 2008. (with Anthony So, Arti Rai, Robert Cook Deegan, Jerome Reichman, Robert Weissman, and Amy Kapczynski) *PLoS Biology* 6(10)

“The Cost of Medical Management in Advanced Heart Failure During the Final Two Years of Life” 2008. (with M. Russo, A. Gelijns, L. Stevenson, K. Aaronson, D. Denlund, D. Ascheim, K. Hong, M. Oz, A. Moskowitz, E. Rose, and L. Miller) *Journal of Cardiac Failure* 14(8): 651-8.

“The Anatomy of Medical School Patenting” 2007. (with Pierre Azoulay and Ryan Michigan) *The New England Journal of Medicine* 20(357): 2049-2056.

“Patenting and Academic Research in the Twentieth Century: The World Before and After Bayh–Dole” 2006. *Research Policy*.

“The Bayh–Dole Act of 1980 and University–Industry Technology Transfer: A Model for Other OECD Governments?” 2006. (with David Mowery) *Journal of Technology Transfer* 30 (1): 115–127.

“Changes in University Patent Quality After Bayh–Dole: A Re–Examination” (with David Mowery and Arvids Ziedonis) *International Journal of Industrial Organization* 21: 1371–1390.

“Why and How Innovations Get Adopted: A Tale of Four Models.” 2003. (with Richard Nelson and Alexander Peterhansl) *Industrial and Corporate Change* 13: 679–699.

“Learning to Patent? Institutional Experience and the Quality of University Patents.” 2002. (with David Mowery and Arvids Ziedonis) *Management Science* 48: 73–89.

“How Do University Inventions Get Into Practice?” 2002. (with Jeannette Colyvas, Michael Crow, Annetine Gelijns, Roberto Mazzoleni, Richard Nelson, Nathan Rosenberg) *Management Science* 48: 61–72.

“University Patenting: An Assessment of the Causes and Consequences of Recent Changes in Strategies and Practices” 2002 (with Roberto Mazzoleni) *Revue D’Economie Industrielle* : 233–248.

“Making Sense of Institutions as a Factor Shaping Economic Performance.” 2001. (with Richard R. Nelson) *Journal of Economic Behavior and Organization* 44:31–54.

“The Growth of Patenting and Licensing by U.S. Universities: An Assessment of the Effects of the Bayh–Dole Act of 1980.” 2001. (with Richard Nelson, David Mowery, and Arvids Ziedonis.) *Research Policy* 30:99–119.

“Patenting and Licensing University Inventions: Lessons from the History of Research Corporation.” 2001. (with David Mowery) *Industrial and Corporate Change* 10: 317–355.

“University Patents, Patent Policies, and Patent Policy Debates: 1925–1980.” 2001 (with David Mowery) *Industrial and Corporate Change* 10: 781–814.

## Chapters

"Innovation, Technical Change, and Patents in the Development Process: A Long Term View" (with Mario Cimoli, Giovanni Dosi, and Roberto Mazzoleni) in G. Dosi, M. Cimoli, and J. Stiglitz, eds. *Intellectual Property Rights: Legal and Economic Challenges for Development* Oxford University Press, forthcoming (2010)

“Catching Up in Indian Pharmaceuticals and Software: The Roles That Patents Did and Did Not Play” in H. Odagiri et al. eds., *Intellectual Property Rights, Development, and Catch Up: An International Comparative Study*. Oxford University Press, forthcoming (2010)

“The Dismal Science, The Crown Jewel and the Endless Frontier: An Economist’s Perspective on the NIH” in D. Foray, ed., *The New Economics of Technology Policy*. Edward

Elgar (2009)

“University Patenting: Shaping A New Government Patent Policy” in D. H. Guston and D. Sarewitz, eds., *Science, Technology, and Public Policy: The Next Generation of Research*. University of Wisconsin Press (2007)

“Changes in University Patent Quality After Bayh–Dole: A Re–Examination” in *Technological Entrepreneurship: Institutions and Agents Involved in University Technology Transfer*. Edward Elgar (2007)

“Universities and National Innovation Systems” (with David Mowery) in Fagerberg, Jan et al. eds., *The Oxford Handbook of Innovation*. Oxford University Press (2004)

“Patent Citations and the Economic Value of Patents” (with Arvids Ziedonis) in Schmoch, Ulrich et al. eds., *The Handbook of Quantitative Science and Technology*. Springer (2003)

“Making Sense of Institutions as a Factor Shaping Economic Performance” (with Richard Nelson) in Geoffrey Hodgson, ed. *Recent Developments in Institutional Economics Economics: International Library of Critical Writings in Economics*. Edward Elgar, Cheltenham (2003)

“The Emergence and Standardization of University Technology Transfer Offices: A Case Study of Institutional Change” (with Richard Nelson) in *The New Institutionalism in Strategic Management* Volume 19, Paul Ingram and Brian Silverman eds., JAI Press. (2002)

“The Effects of the Bayh–Dole Act on U.S. University Research and Technology Transfer: An Analysis of Data from Columbia University, the University of California, and Stanford University” in Lewis M Branscomb, Fumio Kodama and Richard Florida, Lewis Branscomb, ed., *The Industrialization of Knowledge*. Cambridge: MIT Press (1999)

“Laboratory Based Innovation in the American National Innovation System” (with Christopher Tucker) in Michael M. Crow and Barry Bozeman’s *Limited By Design: R&D Laboratories in the U.S. National Innovation System*. New York: Columbia University Press (1998)

### Other

“The Bayh-Dole Model in Developing Countries: Reflections on the Indian Bill on Publicly Financed IP” Policy Brief 5 UNCTAD-ICTSD Program on IPRs and Sustainable Development. October 2009.

“Bad patents, and what to do about them.” (with Mark Lemley and Douglas Lichtman) *Regulation* 28(4): 10–13. Reprinted in IP Law and Business January 2006.

Book Review of A.N. Link and D.S. Siegel, *Technological Change and Economic Performance*. In *Research Policy* 2(34), 253–254: 2005.

## Submitted

“The Roles of the Public and Private Sectors in Pharmaceutical Innovation” (with Frank Lichtenberg)

“Patent Examiner Characteristics and Patent Office Outcomes” (with Mark Lemley)

"Examining Patent Examination" (with Mark Lemley)

## **Grants**

Contributing to Health Care Reform, Commonwealth Fund, 12/09-12/10.

"Serendipity" in Biomedical Research and Drug Development. NBER Innovation Policy and the Economy Grant.

The Political Economy of the NIH, Robert Wood Johnson Foundation Investigator Award, 9/07-9/10

The Political Economy of Patent System Reform, The Ford Foundation, Principal Investigator, 7/06-7/10

The Columbia–Stanford Consortium on Medical Innovation, The Merck Company Foundation, Principal Investigator and Director, 10/05-12/08

## **Courses**

Health and International Development (Graduate Level, Mailman School of Public Health and School of International and Public Affairs) Spring 2010.

Science, Technology, and Sustainable Economic Development (Doctoral Seminar, Columbia Earth Institute) Spring 2008, 2010.

Research Methods for Health Care Management (Graduate Level, Mailman School of Public Health) Spring 2009.

Economic Evaluation of Health Technologies and Programs (Graduate Level, Mailman School of Public Health) Spring 2008.

Program Evaluation (Graduate Level, Mailman School of Public Health) Spring 2007, Spring 2008.

U.S. Science and Technology Policy (Graduate Level, School of International and Public

Affairs) Spring 2000, Spring 2006, Spring 2007.

### **Service**

Board of Advisors, Institute for Medicines, Access, and Knowledge

Associate Editor, Information Economics and Policy, (7/05–7/07)

Referee, RAND Journal of Economics, Journal of Economic Behavior and Organization, Journal of Policy Analysis and Management, Journal of Economics and Management Strategy, Research Policy, Science and Public Policy, Economics of Innovation and New Technology, American Journal of Managed Care, Health Services Research, Milbank Quarterly, Journal of Health Politics, Policy, and Law, Management Science, Review of Economics and Statistics.

Provided testimony to and/or prepared presentations/reports for various government agencies and NGOs, including U.S. Department of Health and Human Services, the National Institutes of Health, the National Science Foundation, the National Academy of Sciences, UNCTAD, the Japanese Institute of Intellectual Property, and the Organization of Economic Cooperation and Development.