

Jeffrey L. Furman

*Visiting Professor
MIT Sloan School
100 Main Street, E62-483
Cambridge, MA 02142
email: jfurman@mit.edu*

PERSONAL

Place of Birth: Philadelphia, PA
Citizenship: United States

ACADEMIC POSITIONS

MIT-Sloan School of Management
Visiting Professor, Tech. Innovation, Entrepreneurship, & Strategic Management, 2015-2016
Boston University – School of Management
Assistant Professor of Strategy & Innovation, Fall 2001-2010
Associate Professor of Strategy & Innovation, Fall 2010-present
National Bureau of Economic Research
Research Associate (Productivity Program) 2010-present
Faculty Research Fellow (Productivity Program) 2004-2010
Universität Osnabrück
Visiting Scholar, Summer 2014
MIT – Sloan School of Management
Research & Teaching Assistant, 1996-2001

EDUCATION

MIT - Sloan School of Management, Ph.D.
Dissertation title: Essays on the role of location in strategy
Dissertation Committee: Rebecca Henderson (chair), Scott Stern, Eleanor Westney
University of Pennsylvania
Wharton School of Business, B.S. in Economics, *magna cum laude*
College of Arts and Sciences, B.A. in Psychology, *magna cum laude*
Free University of Berlin, Fulbright-sponsored study in Business Economics

PRIMARY FIELDS

Technology Strategy
Strategic Management in Science-Based Industries
Economics of Innovation & Science (Science & Innovation Policy)
Role of Location/Region in Global Business Strategy

RESEARCH PAPERS

Published Research Articles

1. “Retractions,” with Pierre Azoulay, Josh Krieger, and Fiona Murray, *The Review of Economics & Statistics*, forthcoming [also NBER WP#18499].
2. “Growing Stem Cells: The Impact of U.S. Policy on the Organization of Scientific Research,” (2012) with F. Murray and S. Stern, *Journal of Policy Analysis & Management*, 31(3)661–705.
3. “Governing knowledge production in the scientific community: Quantifying the impact of retractions,” (2012) with K. Jensen & F. Murray, *Research Policy*, 41(2), 251-498.
4. “Climbing atop the shoulders of giants: The impact of institutions on cumulative research” (2011) with S. Stern [also NBER WP#12523], *American Economic Review*, 101(5), 1933-1963.
5. “An NCI Perspective on Creating Sustainable Biospecimen Resources” (2011) with J. Vaught, J. Rogers, K. Myers, M. Lim, N. Lockhart, H. Moore, and C. Compton, *Journal of the National Cancer Institute*, 42, 1-8.
6. “More for the research dollar,” (2010) with Fiona Murray and Scott Stern, *Nature*, 468, 757-758.
7. “Organizational Innovation & Academic Collaboration: The role of universities in the emergence of U.S. Pharmaceutical research laboratories,” with M. MacGarvie, *Industrial and Corporate Change*, 2009.
8. “When the pill peddlers met the scientists: The antecedents and implications of early collaborations between U.S. pharmaceutical firms and universities,” with M. MacGarvie, *Essays in Economic & Business History*, 2008.
9. “Academic science and early industrial research labs in the pharmaceutical industry,” (with M. MacGarvie), *Journal of Economic Behavior & Organization*, 2007 (also NBER WP#11470).
10. “Public & Private Spillovers, Location, and the Productivity of Pharmaceutical Research,” with M. Kyle, I. Cockburn, and R. Henderson, *Annales d'Economie et de Statistique*, 2005 (also NBER WP#12509).
11. “Catching up or standing still? National innovative productivity among ‘follower’ nations, 1978-1999,” with R. Hayes, *Research Policy* (2004).
[reprinted in *Technological Change & Economic Catch-Up: The Role of Science and Multinationals*. Grazia Santangelo, ed., Edward Elgar: Cheltenham, UK.]
12. “Location and strategy: Exploring the role of location in the organization of pharmaceutical research laboratories,” *Advances in Strategic Management*, 2003.
13. “The determinants of national innovative capacity,” with S. Stern and M. Porter, *Research Policy*, 2002 (also NBER WP#7376).
14. “Turnarounds,” with A. McGahan, *Managerial and Decision Economics*, 2002.
15. “Deriving the determinants of national innovative capacity,” with S. Stern and M. Porter, *Academy of Management Best Paper Proceedings*, 2000.
16. “Understanding the drivers of national innovative capacity – Implications for Central European economies,” with S. Stern, *Wirtschaftspolitische Blätter*, 2000.

Articles (or other contributions) Published in Monographs or Books

17. “The America COMPETES Acts: The Future of U.S. Physical Science & Engineering Research?” in Josh Lerner & Scott Stern, ed., *Innovation Policy & the Economy*, volume 13, Chicago, IL: University of Chicago Press, 2013.

18. "Comment on Petra Moser & Paul W. Rhode, 'Did Plant Patents Create the American Rose?'" in Josh Lerner and Scott Stern, ed., *The Rate and Direction of Inventive Activity Revisited*, Chicago, IL: University of Chicago Press. 2012.
19. "The Economics of Science and Technology Leadership," *Leadership in Science and Technology: A Reference Handbook*, William Sims Bainbridge, Editor, Sage Publications, 2011.
20. "The Pharmaceutical Industry," in *The Encyclopedia of Globalization*, Robertson, R. and J.A. Scholte (ed.), New York, NY: Routledge, 2006.
21. "A penny for your quotes?: The impact of biological resource centers on life sciences research," with S. Stern, in *Biological Resource Centers: Knowledge Hubs for the Life Sciences*, ed. S. Stern, Washington, DC: Brookings Institution Press, 2004.
22. "The Drivers of National Innovative Capacity: Implications for Spain and Latin America," ("Los Factores Impulsores de la Capacidad Innovadora Nacional: Implicaciones para España y América Latina"), with M. Porter and S. Stern, in *Claves de la Economía Mundial*, 2000.

Articles Under Submission, Working Papers, & Research in Process

23. "Firm Performance & State Innovation Funding: Evidence from China's Innofund Program," with Yanbo Wang & Jizhen Li, *R&R at Research Policy*.
24. "The consequences of scientific errors and fraud: The impact of retraction and convictions for scientific fraud on co-authors and scientific careers," with Pierre Azoulay, Josh Krieger, and Fiona Murray, research in progress.
25. "Does industry matter differently in different places? A comparison of industry, corporate parent, and business segment effects in four OECD countries."
26. "National regulatory environments, firm characteristics, and product entry in the global pharmaceutical industry," with M. Kyle.
27. "Mergers, academic science, and the geography of research in the pharmaceutical industry," with E. Bruegmann.

Research Reports & Congressional Testimony

1. "Economic Perspectives on Collaboration in Science," with Patrick Gaule (2013) report for the Workshop on Institutional and Organizational Supports for Team Science, ed., National Research Council.
2. "Remarks before the Senate Subcommittee on Commerce, Science, & Transportation regarding American Competitiveness in Science & Innovation and the America COMPETES Act," (19 September 2012), Senate Subcommittee on Commerce, Science, & Transportation, Senators Jay Rockefeller and Kay Bailey Hutchinson, presiding.
3. "Labor Market Conditions, Socioeconomic Factors, and the Growth of Applications and Awards for SSDI and SSI Disability Benefits," with D. Stapleton, B. Barnow, K. Coleman, K. Dietrich, G. Lo, and J. Bound (1995) Report to the Department of Human Services and the Social Security Administration.

RESEARCH PRESENTATIONS

1. "Firm Performance & State Innovation Funding: Evidence from China's Innofund Program," S&I Department Brown Bag Seminar, Boston University, January 2015
2. "The SBIR Program: A selected review of academic research," Methodological Issues in the Evaluation of NSF's Innovation Programs," National Science Foundation, Arlington VA,

September 2014.

3. "Entrepreneurship & Innovation Policy: Evidence from China's Innofund Program," Academy of Management Conference, Philadelphia PA, August 2014
4. "Retractions in Biomedical Research," INCHER Seminar, Universität Kassel; Kassel, DE; July 2014
5. "Retractions in Biomedical Research," Institut für Empirische Wirtschaftsforschung (Institute for Empirical Business Research), Universität Osnabrück; Osnabrück, DE; July 2014.
6. "Retractions in Biomedical Research," Seminar in Department of Strategy & International Management; Copenhagen Business School; Copenhagen, DK; June 2014.
7. "Entrepreneurship & Innovation Policy: Evidence from China's Innofund Program," ZeW CoDE Conference (Conference on the Dynamics of Entrepreneurship), Zentrum für Europäische Wirtschaftsforschung (ZEW), Mannheim, DE, May 2014
8. "Assessing Returns to Federal Investments in R&D," Workshop on Research Outputs & Policy and Implications of NSF-SciSIP Program, American Academy for the Advancement of Sciences (AAAS – SciSIP Program) Washington DC; May 2014.
9. "Retractions," American Economic Association meetings, Philadelphia, PA, January 2014.
10. "Retractions in Biomedical Research," Knowledge Globalization Conference, Suffolk University, Boston, MA, November 2013.
11. "Economic Perspectives on Collaboration in Science," Workshop on Institutional and Organizational Supports for Team Science, National Academies of Science, Washington, DC, October 2013.
12. "Retractions in Biomedical Research," Atlanta Science & Innovation Policy Conference, Atlanta GA, September 2013.
13. "The impact of government R&D subsidies in China: The case of the Innofund," PDW on Innovation Under Different Forms of Capitalism, Academy of Management Meeting, Orlando FL, August 2013.
14. "Retractions in Biomedical Research," Katholieke Universiteit Leuven, Leuven Belgium, June 2013.
15. "Fraud & the Effectiveness of the Republic of Science," DRUID 35th DRUID Celebration Conference, Barcelona, Spain, June 2013.
16. "Retractions in Biomedical Research," DRUID 35th DRUID Celebration Conference, Barcelona, Spain, June 2013.
17. "The SBIR Program: Opportunities for Evaluation using Administrative Data," SBIR Workshop, Washington, DC, May 2013.
18. "Retractions in Biomedical Research," Wharton Multinational Management Seminar, Philadelphia, PA, February 2013.
19. "The America COMPETES Acts: The Future of U.S. Physical Science & Engineering Research?," Knowledge Globalization Conference, Suffolk University, Boston, MA, November 2012.
20. "Retractions & Scientific Communities," SciSIP Principal Investigators' Conference, Washington, DC, September 2012.
21. "Remarks before the Senate Subcommittee on Commerce, Science, & Transportation regarding American Competitiveness in Science & Innovation and the America COMPETES Act," Senate Subcommittee on Commerce, Science, & Transportation, Senators Jay Rockefeller and Kay Bailey Hutchinson, presiding; Washington, DC, September 19, 2012.
22. "Measuring Knowledge Flows: Knowledge flows data & tools," Academy of Management Conference, Boston MA, August, 2012

23. "Assessing the impact of government R&D subsidies in China: The case of the Innofund," Academy of Management Conference, Boston MA, August, 2012.
24. "Geography, Networks, & Change Retractions & Scientific Communities," Academy of Management Conference, Boston MA, August, 2012.
25. "The Economics of the America Competes Act," NBER Innovation Policy & the Economy Conference, National Press Club, Washington, DC, April 2012.
26. "Institutions & Knowledge Accumulation: Studying Retractions in Biomedical Research," Academy of Management Conference, San Antonio, TX, August, 2011
27. "Challenges facing patent research," USPTO-NSF Patent Data workshop, Alexandria VA, June 2011.
28. "Institutions and Cumulative Research," SMG Research Day, Boston MA, June 2011.
29. "Growing Stem Cells: The Impact of US Policy on the Geography & Organization of Scientific Discovery," Georgia Tech, Department of Strategic Management, Atlanta, GA, March 2011
30. "The Impact of Science Policy on the Rate & Direction of Cumulative Research: Frontier Tools & Applications," Workshop on the Science of Science Measurement, National Science Foundation, National Press Club, Washington, DC, December 2010
31. "Growing Stem Cells: The Impact of US Policy on the Geography & Organization of Scientific Discovery," Knowledge Globalization Conference, Suffolk University, Boston, MA, November, 2010
32. "Growing Stem Cells: The Impact of US Policy on the Geography & Organization of Scientific Discovery," APPAM (Association for Public Policy Analysis and Management) Research Conference, Boston, MA, November, 2010
33. "Growing Stem Cells: The Impact of US Policy on the Geography & Organization of Scientific Discovery," University of Massachusetts - Amherst, MA, September, 2010
34. "Examining the impact of mergers on the location of pharmaceutical research," Academy of Management Conference, Montreal, CA, August, 2010
35. "Assessing the impact of institutions affecting openness in science," A natural experiments approach," Academy of Management Conference, Montreal, CA, August, 2010
36. "Science & Innovation in a Borderless/Bordered World: Convergence & Agglomeration," Academy of Management Conference, Montreal, CA, August, 2010
37. "Growing Stem Cells: The Impact of US Policy on the Geography and Organization of Scientific Discovery," DRUID Conference, London, UK, June 2010
38. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," ZEW-Mannheim, Mannheim, Germany, June 2010
39. "Growing Stem Cells: The Impact of US Policy on the Geography and Organization of Scientific Discovery," Wharton Technology Conference, Wharton School of Business, Philadelphia, PA, April 2010
40. "Growing Stem Cells: The Impact of US Policy on the Geography and Organization of Scientific Discovery," University of Michigan, Strategy Department Seminar, Ann Arbor, MI March, 2010
41. "Fragile Foundations of Regional Scientific Advantage? US Stem Cell Policy and Geography of Discovery," *Academy of Management Conference*, Chicago, IL, August 2009
42. "Innovation at and near the Global Technological Frontier," *Academy of Management Conference*, Professional Development Workshop on Sustaining Innovation in a Global System, Chicago, IL, August 2009
43. "Measuring Knowledge Flows: Patent and Non-Patent Data – an Introduction," *Academy of Management Conference*, Professional Development Workshop, Chicago, IL, August 2009
44. "Climbing atop the shoulders of giants: The impact of institutions on cumulative research," *COMMUNIA Conference 2009: Global Science & Economics of Knowledge-Sharing Institutions*, Turin, IT, July 2009

45. "The Fragile Foundations of Regional Scientific Advantage? Assessing the impact of the U.S. Stem Cell Policy," *Temple University Department of General and Strategic Management*, Philadelphia, PA, May 2009
46. "The Impact of Science Policy on the Rate & Direction of Scientific Discovery," *AAAS / NSF – SciSIP Workshop*, Washington, DC, March 2009
47. "The Fragile Foundations of Regional Scientific Advantage? Assessing the impact of the U.S. Stem Cell Policy," *London Business School*, Department of Strategic and International Management London, England, , March 2009
48. "The Fragile Foundations of Regional Scientific Advantage," *Technology Transfer Society Conference*, Albany, NY, October 2008
49. "The Fragile Foundations of Regional Scientific Advantage," *INFORMS Conference*, Washington, DC, October 2008
50. "Globalizing Innovation with National Players: Identifying New Opportunities for Research & Practice," *Academy of Management Conference*, Professional Development Workshop, Anaheim CA, August 2008
51. "Using Patent Data for Research – Identifying the Impact of Institutions on Knowledge Flows," *Academy of Management Conference*, Professional Development Workshop, Anaheim CA, August 2008
52. "The Fragile Foundations of Regional Scientific Advantage," *Sloan Industry Studies Conference*, Boston, MA, April 2008
53. "Climbing atop the shoulders of giants: The impact of institutions on cumulative research," *Ludwig-Maximilians-Universität-Munich, Center for Advanced Management Studies*, Visiting Scholar Seminar Series, March 2008
54. "Retractions in scientific literature," *Ludwig-Maximilians-Universität-Munich, Center for Advanced Management Studies*, Visiting Scholar Seminar Series, March 2008
55. "Post-Merger R&D Re-Organization in the Global Pharmaceutical Industry," *Location of Biopharmaceutical Activity Conference*, Savannah, GA, March 2008
56. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *National Cancer Institute – Biorepositories & Biospecimen Research*, Bioeconomics Workshop, June 2008
57. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Georgia Institute of Technology*, Strategy Department Seminar Series, May 2008
58. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *University of Pittsburgh-Carnegie Mellon University*, Joint Applied Microeconomics Seminar Series, April 2008
59. "Retractions in scientific literature," *NBER Productivity Lunch Seminar*, NBER, Cambridge, MA, March 2008
60. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *University of Maryland (Smith School of Business)*, Management & Organizations Department Seminar: February 2008
61. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Harvard Business School*, Competitive Strategy Department Seminar: December 2007
62. "A Penny for your Quotes? Assessing the impact of Biological Resource Centers on Life Sciences Research," *NIH/National Cancer Institute's Biospecimen Best Practices Forum*, Harvard Medical School, Boston, MA; November 2007
63. "Using Patent Data for Research – Identifying the Impact of Institutions on Knowledge Flows," *Academy of Management Conference*, Professional Development Workshop, Philadelphia, PA, August 2007
64. "Entry Dynamics & Network Emergence: The case of Human Embryonic Stem Cell Research," *Academy of Management Conference*, Philadelphia, PA, August 2007

65. "Exploring the Foundations of Regional Scientific Advantage in Stem Cell Research," *Academy of Management Conference*, Philadelphia, PA, August 2007
66. "Post-Merger R&D Re-organization in the Global Pharmaceutical Industry," *NBER Biopharmaceutical Location Pre-conference*, National Bureau of Economic Research, Cambridge, MA, July 2007
67. "Early Academic Science & the Birth Industrial Research Labs in the US Pharmaceutical Industry," *Economic and Business Historical Society*, April 2007
68. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Bentley College*, Strategy Department Seminar, February 2007
69. "Knowledge Spillovers, Geographic Location, and the Productivity of Pharmaceutical Research," *Boston Federal Reserve Bank*, Boston, MA, November 2006
70. "The Fragile Foundations of Regional Scientific Advantage," *Academy of Management Conference*, Atlanta, GA, August 2006
71. "Exploring the Institutional and Organizational Foundations of Cumulative Innovation," presentation in the Professional Development Workshop, "Exploring the Institutional and Organizational Foundations of Cumulative Innovation," *Academy of Management Conference*, Atlanta, GA, August 2006
72. "Assessing the Role of Institutions in Geography, Networks, and Innovation," presentation in the Professional Development Workshop, "Geography, Networks, & Innovation," *Academy of Management Conference*, Atlanta, GA, August 2006
73. "Early Academic Science & the Birth Industrial Research Labs in the US Pharmaceutical Industry," *DRUID Conference*, Copenhagen, Denmark, June 2006
74. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Stanford University*, Stanford Institute for Economic Policy Research (SIEPR), May 2006
75. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *University of Western Ontario (Ivey School of Business)*, April 2006
76. "Early Academic Science & the Birth Industrial Research Labs in the US Pharmaceutical Industry," *University of Toronto (Rotman School of Management)*, Strategy Department Seminar, Toronto, CA, March 2006
77. "Geography & Innovation: Explaining the drivers of national innovation," *Boston University – Breakfast Briefings, BU Club*, Boston, MA, March 2006
78. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Institutional Mechanisms for Industry Self-Regulation Conference*, Tuck School of Business, Dartmouth University, February, 2006
79. "Identifying the Impact of Institutions on Scientific and Technical Knowledge Flows," *Academy of Management Conference*, Professional Development Workshop, Honolulu, HI, August 2005
80. "Early Academic Science & the Birth Industrial Research Labs in the US Pharmaceutical Industry," *Academy of Management Conference*, Honolulu, HI, August 2005
81. "An initial exploration of the impact of US policy on stem cell research," *Innovation Research Network Conference*. Boston College, Chestnut Hill, MA, May 2005
82. "Early Academic Science & the Birth Industrial Research Labs in the US Pharmaceutical Industry," *NBER Academic Science & Entrepreneurship Conference*. Santa Fe, NM, April 2005
83. "Knowledge Spillovers, Geographic Location, and the Productivity of Pharmaceutical Research," *BYU-University of Utah Winter Strategy Conference*, Park City, UT, March 2005
84. "An Overview of Research on Location & Economic Activity, with Special Application to the Pharmaceutical Industry," *NBER Int'l R&D Roundtable*. Cambridge, MA: January 2005
85. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Rensselaer Polytechnic Institute*, Economics Department Seminar: November 2004

86. "Catching Up or Standing Still? National Innovative Productivity among 'Follower' Nations, 1978-1999," *Symposium on "Measuring Rates and Drivers of Innovation," sponsored by the Intellectual Property Research Institute of Australia Symposium (Melbourne Business School)*. Melbourne, Australia: November 2004
87. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Harvard Business School, Technology & Operations Management Department Seminar*: October 2004
88. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Washington University in St. Louis, Strategy Department Seminar*: October 2004
89. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *International Society for New Institutional Economics*. Tucson, AZ: October 2004
90. "Knowledge Spillovers, Geographic Location, and the Productivity of Pharmaceutical Research," *Academy of Management Conference*, New Orleans, LA, August 2004
91. "Knowledge Spillovers, Geographic Location, and the Productivity of Pharmaceutical Research," *Academy of International Business Conference*, Stockholm, Sweden, July 2004
92. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Strategic Research Forum*. Toronto, CA: May 2004
93. "Knowledge Spillovers, Geographic Location, and the Productivity of Pharmaceutical Research," *International Industrial Organization Conference*, Northwestern University, April 2004
94. "Knowledge Spillovers, Geographic Location, and the Productivity of Pharmaceutical Research," *NBER Productivity Lunch*, Cambridge, MA, March 30, 2004
95. "Catching Up or Standing Still? National Innovative Productivity among 'Follower' Nations, 1978-1999," *Workshop on Public Research Institutions, International Business, and Technological and Economic Catch Up in Developing Regions*, Catania University, Faculty of Political Science; Catania, Italy, March 2004
96. "Catching Up or Standing Still? National Innovative Productivity among 'Follower' Nations, 1978-1999," *What do we know about Innovation Conference, held in honor of Keith Pavitt*, Sussex Policy Research Unit, Brighton, England, November 2003.
97. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *Academy of Management meetings*. Seattle, WA: August 2003
98. "Knowledge Spillovers, Geographic Location, and the Productivity of Pharmaceutical Research," *NBER Conference on R&D, Education and Productivity in Memory of Zvi Griliches*, Paris, August 2003
99. "Location and strategy: Exploring the role of location in the organization of pharmaceutical research laboratories," *Academy of Management meetings*. Seattle, WA: August 2003
100. "National regulatory environments, firm characteristics, and product entry in the global pharmaceutical industry," *Academy of Management meetings*. Seattle, WA: August 2003
101. "Essays on Location and Strategy," *Gunnar Hedlund Dissertation Award finalist presentation, European International Business Association conference*. Athens, Greece: December 2002
102. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *INFORMS Organization Science meetings*. San Jose, CA: November 2002
103. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *National Bureau of Economic Research Summer Institute, Productivity Workshop - R&D, Strategy and Organizations*. Cambridge, MA: July 2002
104. "Climbing Atop the Shoulders of Giants: The Impact of Institutions on Cumulative Research," *NBER Productivity Lunch*. Cambridge, MA: May 2002
105. "Location and strategy: Exploring the role of location in the organization of pharmaceutical research laboratories," *Academy of International Business meetings*: San Juan, PR, June 2002

106. "Productivity and Geographic Dispersion in Drug Discovery Research," *National Bureau of Economic Research Summer Institute*. Cambridge, MA: July 2002
107. "National regulatory environments, firm characteristics, and product entry in the global pharmaceutical industry," *Academy of International Business* meetings. San Juan, PR: June 2002
108. "Globalization in the pharmaceutical industry," *Sloan Foundation Workshop on Globalization*. University of California, Berkeley, CA: June 2002
109. "The determinants of national innovative capacity," *Academy of International Business* meetings. Phoenix, AZ: November 2000
110. "The determinants of national innovative capacity," *Academy of Management* meetings. Toronto, Canada: August 2000
111. "Examining the locus of isomorphism: firm effects vs. geographic effects in the organization of pharmaceutical research," *CCC doctoral consortium*, Northwestern University – Kellogg School of Management, April 2000
112. "Firm effects, geographic effects and the organization of drug discovery research," *Wharton Multinational Strategy Conference*, The Wharton School, Philadelphia, PA: October 1999
113. "How much does industry matter elsewhere? Evidence from a four OECD countries," *Academy of Management* meetings. Chicago, IL: August 1999
114. "Do locations and institutions affect the organization of pharmaceutical research?" *CCC doctoral consortium*. New York University, New York: April 1999

Invited Job Market Presentations (Winter 2001)

115. Boston University – School of Management
116. George Washington University – School of Business
117. Georgetown University – McDonough School of Business
118. INSEAD
119. London Business School
120. New York University – Stern School of Business
121. Stockholm School of Economics
122. University of California, Los Angeles (UCLA) – Anderson School of Management
123. University of Florida – Warrington College of Business Administration
124. University of Illinois – College of Business
125. University of Miami – School of Business
126. University of Michigan – School of Business
127. University of Toronto – Rotman School of Management

DISCUSSANT PRESENTATIONS

128. Academy of Management meetings (August 2014; Philadelphia PA) discussant for the session, "Institutional Shifts, Scientific Professionals, and the Direction of Technical Activity"
discussant for the following papers:
 - (a) Pech Colatat, "Organizational Influence in Autism Diagnosis: Adaptation from Imprinting"
 - (b) Hila Lifshitz-Assaf, "Problem Solvers to Solution Seekers: Knowledge Boundary & Professional Identity Work by R&D Member"
 - (c) Florenta Teodoridis, "Generalists, Specialists, and the Direction of Inventive Activity"
 - (d) Eyiunmi Akinsanmi, Ray Reagans, Erica Fuchs, "Seeing Rainbows While Others Flee: Inventor Mobility & Technology Directions Post Telecom Bubble"
129. Charles River Conference on Technology & Innovation, discussion of "Mapping Innovation," by Abhishek Nagaraj (May 2014; HBS, Boston MA)

130. American Economic Association meetings (January, 2014; Philadelphia, PA) discussant for “Universities as Innovators: The Effects of Academic Incubators on Patent Quality,” by Peter G. Klein & Christos Kolympiris.
131. DRUID Conference (June 2013; Barcelona, Spain); discussant for the session, “Mobility and motivation”
discussant for the following papers:
 - (a) Julien P. éin, “Motivation crowding-out: Is there a risk for science”
 - (b) Elisabeth Bublitz, “Matching Skills of Individuals and Firms along the Career Path”
 - (c) Elisabetta Marinelli, Ana Fernandez-Zubieta, & Susana Elena-Perez, “Research-mobility and job-stability: is there a trade-off?”
132. Academy of Management Conference (August 2012; Boston MA.); discussant for the session, “Innovations in Pharmaceutical Innovation: New Medicines for Diseases of the Poor,” including:
 - (a) Ernst Berndt, Nathan Blalock, & Iain Cockburn, "Diffusion of New Drugs in the Post-TRIPS Era"
 - (b) Peter Klein, Anita M McGahan, Rahim Rezaie, & David Wolfe, "Biopharmaceutical Innovation in China, India and Brazil after TRIPS"
 - (c) Margaret Kyle & David Ridley, "Encouraging Pharmaceutical Innovation"
 - (d) Alfonso Gambardella, Anita McGahan, and Giovanni Valentini, "Generations of Innovation: R&D Leadership in HIV Treatment"
133. Rate & Direction of Inventive Activity, NBER 50th Anniversary Conference (October 2010, Warrenton, VA), discussion of, “Plant Patents & the American Rose,” by Petra Moser & Paul Rhode
134. Academy of Management (August 2010, Montreal, CA), presenter/discussant for BPS Doctoral Consortium, “Lessons from the School of Hard Knocks: (Mis)Adventures in Publishing”
135. Academy of Management (August 2009, Chicago, IL), facilitator/discussant for the session, “Knowledge Management Processes”
discussant for the following papers:
 - (a) Lisa Katarina Gaerber, “The Role of Knowledge in the Quest for Subsidiary Power”
 - (b) Jeroen Kraaijenbrink, “Past and Future Research on Organizational Knowledge Processes”
 - (c) Elena P. Antonacopoulou; Stephanie Geary, & Efrosyni Konstantinou, “Knowledge Dis-Integration: The Dynamic Tensions of Knowledge Management Processes”
 - (d) Anna Comacchio, Sara Bonesso, Martina Valente, “Does Organizing for R&D Mean Organizing for Absorptive Capacity?”
 - (e) Tiaojung Hsu, Kuen-Hung Tsai, Wenchang Fang, “Knowledge Integration Mechanism Really Mediates the Collaboration-Performance Relationship?”
136. Academy of Management (August 2008, Anaheim, CA), discussant for the session, “Restructuring and Turnarounds”
discussant for the following papers:
 - (a) Carolin Decker & Tina Dacin, “Legitimacy Needs as Drivers of Business Exit”
 - (b) Xin Liang, “Turning Around Through Value Recreation”
 - (c) Pengji Wang, “Restructuring to Regain Legitimacy-A Contingency Perspective”
 - (d) Tania Gomes Marques, Isabel Suarez Gonzalez, & Pedro Pinheiro Cruz, “The Downsizing Effects On Profitability: Evidences From Portugal”
137. NBER Economics of Agglomeration Conference (November 30, 2007; Cambridge MA); discussant for Bill Kerr, “Ethnic Inventors and Agglomeration”
138. NBER Entrepreneurship Working Group Meeting (October 6, 2007; Cambridge MA); discussant for Ed Glaeser, “Entrepreneurship & the City”
139. Strategy Research Forum (May 18, 2007; Brewster, MA); discussant for Brent Goldfarb, Myeong-Gu Seo & Lisa Feldman Barrett, “Risk Taking in the Heat of the Moment: The Role of Affect & Performance”
140. Academy of Management (August 2007, Philadelphia, PA), discussant for the session, “Interfirm Alliances and Dynamic Capabilities”
discussant for the following papers:
 - (a) Oliver S. Schilke, “Organizational Routines as Alliance Capabilities: The Missing Link”

- (b) Ulrich Wassmer, Pierre Dussauge, "Value Creation, Resource Complementarity and Incompatibility in Multilaterally Connected Firms"
 - (c) Melanie Schreiner, Daniel Corsten, Prashant Kale, "Collaborative Capability of the Firm and its Impact on Alliance Process and Firm Success"
 - (d) Qingjiu Tao, Michael D Santoro, Author: Ruihua Joy Jiang, Zhen Tang, "Evolution of Alliance Portfolio Diversity and Firm Performance: The Case Of Global Telecom Industry"
141. Academy of Management (August 2006; Atlanta, GA); discussant for the "International Management Division Paper Development Workshop"
- discussant for the following papers:
- (a) Oliver S. Schilke, "Organizational Routines as Alliance Capabilities: The Missing Link"
 - (b) Nejat Capar and Ravi Chinta, "The Relationship between Multinationality and Performance Risk"
 - (c) Loi Teck Hui, "Operations strategy as a dynamic compounded asset: a longitudinal inquiry"
 - (d) Ana Teresa Tavares and Aurora A.C. Teixeira, "Human capital intensity in technology-based firms located in Portugal: Do foreign multinationals matter?"
142. DRUID Conference (June 18, 2006; Copenhagen, Denmark); discussant for the session, "The contribution from users to innovation"
- discussant for the following papers:
- (a) Saurabh Arora, Muge Ozman, "Knowledge Creation and Diffusion in User and Producer Networks"
 - (b) Celine Schulz, "The Secret to Successful User Communities: An Analysis of Computer Associates' User Groups"
 - (c) Keld Laursen, Nicolai J Foss, Torben Pedersen, "Organizing to Gain From Interaction With Customers: the Role of Organizational Practices For Absorptive and Innovative Capacities"
143. Strategic Research Forum (May 12, 2006; Egg Harbor, NJ); discussant for David Waguespack & Lee Flemming, "Private benefits from public good? Startup strategies for participation in an open standards community"
144. University-Industry Knowledge Transfer Instruments: Scientific Publications and Patents conference at the École Polytechnique Fédérale de Lausanne (September 2005, Lausanne, Switzerland), discussant for Fiona Murray, "The impact of intellectual property on the diffusion of knowledge within scientific and commercial networks"
145. Academy of Management (August 2005; Honolulu, HI); discussant for the session, "Technology Diffusion and Innovation"
- discussant for the following papers:
- (a) Luiz Mesquita (Arizona State), Jaideep Anand (Ohio State), & Thomas Brush (Purdue) – "Knowledge Transfer in Vertical Alliances and the Consequences for Competitive Advantage"
 - (b) Michael Leiblein (Ohio State) & Tammy Madsen (Santa Clara) – "Unbundling Competitive Heterogeneity: Incentive Structures & Capability Influences on Innovation"
 - (c) Jorge Walter (Connecticut) & Melissa Schilling (NYU-Stern) – "Resource-Based and Network-Based Motives for Technology Licensing: An Exploratory Study"
146. Economic History Association (September 2004; San Jose, CA); discussant for Dee Sutthiphisal, "The Geography of Invention in High- and Low-Technology Industries: Evidence from the Second Industrial Revolution"
147. Academy of International Business Conference (July 2004; Stockholm, Sweden); discussant for the session, "Profiting From Innovation: When Does Participation in the Global Innovation System Contribute to Firm Performance?"
- discussant for the following papers:
- (a) Jennifer W. Spencer (George Washington U.) – "Technological Strategies of the Largest Foreign MNCs in the European Regions"
 - (b) John Cantwell (Rutgers & Reading) & Lucia Piscitello (Politecnico di Milano) – "Technological Strategies of the Largest Foreign MNCs in the European Regions"
 - (c) Xavier Martin (Tilburg) & Atul Nerkar (Columbia) – "What Way(s) to Impactful Innovation? A Japan-U.S. Comparison and Empirical Test,"
 - (d) Anu Phene (Utah) & Paul Almeida (Georgetown) – "Innovation in Multinational Subsidiaries: The Role of External Knowledge, Sourcing Capacity & Combinative Capability"

148. International Industrial Organization Conference (April 2004; Northwestern University); discussant for Paris Cleanthous, "Informative Advertising and Learning in U.S. Pharmaceuticals."
149. National Bureau of Economic Research, Spring Productivity Meetings (April, 2002; Cambridge, MA); discussant for Jason Owen-Smith and Walter W. Powell, "Knowledge Networks in the Boston Biotechnology Community."
150. Organization Science mini-conference, INFORMS (Institute for Operations Research and the Management Sciences), (November 2001; Miami, FL); discussant for Wilbur Chung and Juan Alcacer, "Knowledge Seeking and Location Choice."

TEACHING EXPERIENCE

Innovation & Competitive Strategy, IBM (*executive teaching*)
 Competitive Strategy (module), Boston University – Würzburg Program (*executive teaching*)
 Competitive Strategy (module), Boston University – Qiagen Program (*executive teaching*)
 Innovation & Competition, Peking U (*executive teaching*)
 Innovation & Competition, CPA Nord (*executive teaching*)
 Innovation & Competition, HHL-Leipzig (*executive teaching*)
 Technology Strategy (module), Boston University, Executive MBA Program (*executive teaching*)
 Strategy & Policy, Boston University, Asia-Pacific Executive MBA Program (*executive teaching*)
 Technology Strategy, Boston University, Spring 2004 (*doctoral seminar*)
 Strategic & Policy, Boston University, Fall 2001-present.

Teaching Ratings (si422 unless otherwise noted):

- Fall 2014, ratings (2 sections) = 5.00/5.00, 4.91/5.00
- Fall 2013, ratings (2 sections) = 4.91/5.00, 4.89/5.00
- Fall 2013, ratings (2 sections) = 4.91/5.00, 4.89/5.00
- Fall 2012, ratings = 4.90/5.00
- Spring 2012 ratings = 4.90/5.00 (sm450)
- Fall 2011, ratings (3 sections) = 4.97/5.00, 4.93/5.00, 4.94/5.00
- Fall 2010, ratings (3 sections) = 4.91/5.00, 4.95/5.00, 4.81/5.00
- Fall 2009, ratings (3 sections) = 5.00/5.00; 4.98/5.00; 4.93/5.00
- Fall 2008, ratings (3 sections) = 5.00/5.00; 4.96/5.00; 4.96/5.00
- Fall 2007, ratings (3 sections) = 4.97/5.00; ~4.84/5.00
- Spring 2007, ratings (2 undergraduate + 1 MBA section) = ~4.85/5.00 & ~4.75/5.00
- Fall 2006, ratings (1 MBA section) = ~4.75/5.00
- Spring 2006, ratings (1 section) = 5.00 / 5.00 (*based on ratings by 52 students*)
- Fall 2005, ratings (3 sections) ~ 4.89 / 5.00 average across sections
- Fall 2004, ratings (3 sections) = 4.78/5.00; 4.76/5.00; 4.63/5.00
- Fall 2003, ratings (3 sections) = 4.97/5.00; 4.95/5.00; 4.93/5.00
- Fall 2002, ratings (3 sections) = 4.87/5.00; 4.87/5.00; 4.84/5.00
- Spring 2002, ratings (2 sections) = 5.00/5.00; 4.94/5.00
- Fall 2001, ratings = 4.89/5.00

MIT TA for following courses: Technology Strategy; Strategic Management; Management of Technological Innovation; International Management; Business-Government Relations

AWARDS, HONORS, & FUNDING

Sloan Foundation Grant, Co-Principal Investigator (with Pierre Azoulay & Joshua Krieger), “False Science’s Influence on Individual Productivity & Project Selection,” \$20,000; 2014

Named “Research Associate,” National Bureau of Economic Research, Summer; 2010.

National Science Foundation Grant, Co-Principal Investigator (with Fiona Murray and Scott Stern), Science of Science & Innovation Policy Program, “The Impact of Science Policy on the Rate and Direction of Scientific Discovery: Frontier Tools and Applications,” \$398,655; 2007-2014.

Beckwith Prize for Excellence in Teaching & Service to the Undergraduate Program, AY2008-2009

Broderick Prize for Service to the Undergraduate Program, AY2008-2009

Commencement Speaker, Boston University – School of Management, Undergraduate Commencement, May 2006.

Broderick Award for Excellence in Teaching, Boston University School of Management, Academic Year 2004-2005.

Named “Faculty Research Fellow,” National Bureau of Economic Research, Summer 2004.

Boston University, Junior Faculty Research Fund, grants, Academic Years 2003-2010.

Broderick Award for Excellence in Research, Boston U. – School of Management, 2002-2003.

Beckwith Award for Excellence in Teaching, Boston U. – School of Management, 2002-2003.

Hedlund Dissertation Award, Finalist - sponsored by the Institute of International Business, Stockholm School of Economics, Fall 2002.

Dissertation Award, Finalist - Academy of Management, Technology & Innovation Management Division, August 2002.

Research fellowship, MIT Industrial Performance Center (Sloan Foundation), 2000-2001.

Research and tuition grant, Center for Innovation in Product Development, 1999-2000.

Research and tuition grant, Program on the Pharmaceutical Industry, MIT, 1999-2000.

Credit Suisse Fellowship for Study in International Management, 1995-1998.

Fulbright Scholarship for study in the Federal Republic of Germany, 1992-1993.

ACADEMIC SERVICE

PROFESSIONAL SERVICE

Academy of Management, *leadership*

Organizer, TIM Junior Faculty Consortium, TIM Division, 2016 & 2017 (selected)
Executive Committee, TIM Division, Representative At Large, 2015-2017 (elected)
Organizer, BPS Junior Faculty Consortium, BPS Division, 2013 & 2014 (selected)
Executive Committee, BPS Division, 2011- 2013 (elected)
Irwin Teaching Award Committee, BPS Division, 2009-2011 (elected by Exec Committee)

RESEARCH SERVICE

Editorial Board: *Research Policy* (Advisory Editor; 2014-present;), *Industry & Innovation* (Associate Editor, 2009-present), *Strategic Organization*! (2008-present), *Journal of Management* (2008-2010); *Journal of International Business Studies* (2006-2007)

Conference organizer: *NBER Summer Institute, Innovation Policy & the Economy session* (2006-2013), *Strategic Research Forum* (May 2007)

Seminar co-organizer: *NBER Productivity Lunch (Fall 2005 – present); BU-Strategy & Policy Seminar (2002-2004)*

Conference reviewer: *Academy of International Business, Academy of Management, INFORMS Organization Studies Dissertation Proposal Award, European International Business Association, Academy of Management (BPS, TIM, IM), DRUID*

Ad hoc reviewer: *American Economic Review, American Economic Journal - Applied Economics, Academy of Management Journal, Annales d'Economie et de Statistique, Administrative Science Quarterly, Berkeley Electronic Press - B.E. Journal of Economic Analysis & Policy, Czech Science Foundation, Industrial & Corporate Change, International Journal of Management & Decision Making, Irish Geography, Journal of Business Research, Israel Research Foundation, Journal of Economics and Management Strategy, Journal of International Business Studies, Journal of Labor Economics, Journal of Management, Journal of Urban Economics, Management Science, Medical Care, National Academy of Sciences, National Science Foundation, Nature, Nature Biotechnology, Nature Reports, Organizational Science, Papers in Regional Science, Quarterly Journal of Economics, the Rand Journal of Economics, Research Policy, Review of Economics & Statistics, Review of Industrial Organization, Science, Small Business Economics, Strategic Management Journal, Strategic Organization!, and Technovation*

Academic Advising

Doctoral Student Committee Member, Advising, or Evaluation:

- Julie Delanote (KU-Leuven, 2014; external reviewer)
- Eyiunmi Akinsanmi (Carnegie Mellon University, 2014; committee member)
- Florenta Teodoridis (U-Toronto, 2014; external reviewer)
- Cesare Righi (BU-SMG; comprehensive exam committee, 2013)
- Cindy Lopes Bento (KU-Lueven, 2013; external committee member)
- Yulia Muzrya (BU-SMG, chair, comprehensive exam committee, 2012)
- Kyungho Kim (BU-SMG, 2012, committee member)
- Jennifer Walske (BU-SMG, 2009, committee member)
- Elias Brueggemann (Harvard-Economics, 2008, committee member)
- Wei Gao (MIT, 2008, committee member)
- Joe LiPuma (BU-SMG, 2007, committee member)
- Rogerio Victor (BU-SMG, 2007, committee member)
- Francesca Barion (U-Padua, Italy, 2007, committee member)
- Tatiana Manolova (BU-SMG, 2003, committee member)

Doctoral Student External Reader:

- Annapoornima Subramanian (National University of Singapore, 2008)

Directed Studies & Honors Thesis Advisor:

- Nathan Barnard (Spring 2012)
- Surbi Luhadia (Spring 2012 & Fall 2011)
- Sawyer Xie (Spring 2012)
- Jennifer DeMartino (Spring 2009)
- Torrey Fazen (Spring 2008)
- Jerri Patylek (Spring 2008)
- Teddy Kaplan (Spring 2006)
- Teddy Teschner (Spring 2006)
- Jie Zheng (Fall 2005 + Spring 2006)
- Blair Teitel (Spring/Summer-2005)
- Peter Pang (Spring 2005)
- Mark Marcus (Spring 2004)
- Sea Jin Chang (Fall 2003)

- *Ryan Knowles (Spring 2003)*
- *Ian O'Neal (Spring 2003)*
- *Suzy Moran (Spring 2002)*

UROP student projects supervised:

- *Matt D'Amico (Fall 2014, Spring 2015, Summer 2015)*
- *Margaret Fogertey (Spring & Fall 2006)*

BOSTON UNIVERSITY SERVICE

Undergraduate Research Opportunity Program (faculty committee, 2014-2015)
 Undergraduate Program Development Committee (chair, 2012-present; member, 2003-2012)
 Course Coordinator (MG422/SI422 – Strategy & Policy, 2003-2006; 2008-present)
 Undergraduate Program Task Force (2011-2012)
 General Management Concentration Advisor (2003-2011)
 Ad-hoc Committee to Review the Undergraduate Program (Fall 2008-2009)
 Ad-hoc Committee to Review the Part-Time MBA Program (Spring 2005)
 Strategy & Policy Seminar Series: Series Coordinator (2002-2004), Co coordinator (2004-2007)
 Case Competition Advisor, AKΨ (2012-2013)
 Case Selection Advisor, B-School Beanpot (2005-2009)

ADDITIONAL PROFESSIONAL EXPERIENCE

Wissenschaftszentrum Berlin für Sozialforschung (WZB, Social Science Research Center – Berlin)
 Lewin & Associates, public policy and health care consulting, Washington, DC
 Saxony Economic Development Corporation (*Wirtschaftsförderungsgesellschaft Sachsen*),
 Dresden, Germany