# Maryann P. Feldman

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**Contact information:**

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**PROFESSIONAL PREPARATION**

Carnegie Mellon University, Economics and Management, Ph.D. 1992

Carnegie Mellon University, Management and Policy Analysis, M.S. 1982

Ohio State University, Economics and Geography, B.A. 1976

**Professional Appointments:**

2022 – present **Watts Endowed Professor of Public Affairs**, Department of Public Policy, Watts College of Public Service and Community Solutions, Arizona State University

2008 – 2022 **S.K. Heninger Distinguished Professor of Public Policy,** Department of Public Policy, University of North Carolina, Chapel Hill, North Carolina

2017 – 2022 **Director,** CREATE, Kenan Institute for Private Enterprise, University of North Carolina, Chapel Hill, North Carolina.

2017 – 2022 **Adjunct Professor of Finance**, Kenan Flagler Business School, University of North Carolina, Chapel Hill, North Carolina.

2014- 2017 **Program Officer**, Science of Science and Innovation Policy (SciSIP) Program, National Science Foundation, Arlington, Virginia

2006 – 2008 **Miller Distinguished Professor**, Institute of Higher Education, University of Georgia, Athens Georgia.

2002 – 2006 **Professor of Business Economics** and **the Jeffrey S. Skoll Chair of Innovation and Entrepreneurship**, Rotman School of Management, University of Toronto, Toronto, Ontario Canada

2000 - 2002 **Research Scientist**, Program in Entrepreneurship and Management, Department of Mathematical Sciences, Whiting School of Engineering, Johns Hopkins University, Baltimore, Maryland.

2000- 2002 **Policy Director,** Johns Hopkins University Institute for Information Security

 (JHUISI), Whiting School of Engineering, Johns Hopkins University, Baltimore, Maryland.

1995 - 2000 **Research Scientist**, Institute for Policy Studies, Johns Hopkins University, Baltimore, Maryland.

1994 - 1995 **Visiting Assistant Professor**, The H. J. Heinz III School of Public Policy and Management, Carnegie Mellon University, Pittsburgh, Pennsylvania.

1989 - 1994 **Assistant Professor of Economics and Management**, Goucher College, Baltimore, Maryland.

1987- 1989 **Instructor**, Western Maryland College, Westminster, Maryland.

1979 - 1980 **Research Analyst**, Berkeley Planning Associates, Berkeley, California.

1977 - 1979 **Economist II**, Ohio Department of Economic and Community Development, Columbus, Ohio.

**Refereed Publications**

Feldman, M., Johnson, E.E., Bellefleur, R., Dowden, S. & Talukder (2022). Evaluating the tail of the distribution: the economic contributions of frequently awarded government R&D recipients, *Research Policy* 51 (7).

Clayton, P., M.P. Feldman & E. Nwakpuda, (2021). After the IPO: Entrepreneurs’ transition to philanthropy. *Journal of Business Venturing Insights*. 15:

Feldman, M. P., Ozcan, S., & Reichstein, T. (2020). Variation in organizational practices: are startups really different? *Journal of Evolutionary Economics*, 1-31.

Feldman, M., Guy, F. & Iammarino, S. (2020).Regional income disparities, monopoly and finance. *Cambridge Journal of Regions, Economy and Society*, (19-32): 1752-1378.

Donegan, M. & M.P. Feldman (2020). Institutional Evolution and the Collaborative Development of Technology Transfer Capabilities. *International Regional Science Review.* June.

Graddy-Reed, A., J.B. Bercovitz, M.P. Feldman & S. Langford (2021). “The Distribution of Indirect Cost Recovery in Academic Research" *Science and Public Policy*.48 (3),364–386.

Frank, M. R., Autor, D., Bessen, J. E., Brynjolfsson, E., Cebrian, M., Deming, D. J., Feldman, M., Groh, M., Lobo, J., Moro, E., Wang, D., Youn, H., & Rahwan, I. (2019). Toward understanding the impact of artificial intelligence on labor. *Proceedings of the National Academy of Sciences*. 116 (14), 6531-6539.

Feldman, M., Siegel, D. S., & Wright, M. (2019). New developments in innovation and entrepreneurial ecosystems. *Industrial and Corporate Change*, 28(4), 817-826.

Nambisan, S., M. Wright, & M. P. Feldman (2019). The digital transformation of innovation and entrepreneurship: progress, challenges and key themes. *Research Policy*, 48 (8), 1-9.

Clayton, P., Donegan, M. P. Feldman, M., Forbes, A., Lowe, N., & Polly, A. (2019). Local Prior Employment and Ecosystem Dynamics. *Industrial and Labor Relations (ILR) Review*, 72(5), 1182–1199.

Feldman, M.P., S. Ozcan & T. Reichstein (2019). Falling Not Far from the Tree: Entrepreneurs' Prior Employment and the Transfer of Organizational Practices. *Organization Science.* 30 (2), 337-360.

Echeverri-Carroll, E. & M.P. Feldman (2019), Chasing Entrepreneurial Firms, *Industry and Innovation.* 26 (5), 479-507*.*

Feldman, M.P. & N. Lowe (2019), Policy and collective action in place. *Cambridge Journal of Regions, Economy and Society.* 11(2), 335–351.

Donegan, M. A Forbes, P Clayton, A Polly, M Feldman, N Lowe (2019). The tortoise, the hare, and the hybrid: effects of prior employment on the development of an entrepreneurial ecosystem. *Industrial and Corporate Change* 28 (4), 899-920.

Clayton, P., M.P. Feldman, N. Lowe (2018), Behind the Scenes: Intermediary organizations that facilitate science commercialization through entrepreneurship. *The Academy of Management Perspectives.*

Feldman, M. P., M. Halbinger, T. Reichstein, F. Valentin & J. W. Yoon. (2018). Technological achievements in entrepreneurial firms - legacy, value chain experience, and division of innovation labour. *Industry and Innovation.* 26 (3), 243-268*.*

Lanahan, L. & M. P. Feldman (2017), “Approximating Exogenous Variation in R&D: Evidence from the Kentucky and North Carolina SBIR State Match Programs,” *Review of Economics and Statistics.*

Menzel, M.P, M.P. Feldman & T. Broekel (2017), “Institutional change and network evolution: explorative and exploitative tie formations of co-inventors during the dot-com bubble in the Research Triangle region,” *Regional Studies*.

Feldman, M.P. & N. Lowe (2017), “Evidence-Based Economic Development Policy,” *Innovations: Technology, Governance and Globalization.* *11*(3), 34-49.

Modic, D. & M.P. Feldman (2017), “Mapping the Human Brain: Comparing the U.S. and EU Grand Challenges,” *Science and Public Policy. 44*(3), 440-449.

Lowe, N, & M.P. Feldman (2017), “Institutional Life within an Entrepreneurial Region." *Geography Compass. 11*(3).

Feldman, M.P, T. Hadjimichael, T. Kemeny, & L. Lanahan, (2016), “The Logic of Economic Development: A Definition and Model for Investment.” *Environment and Planning C: Government and Policy*. 34: 5 – 21.

Graddy-Reed, A. & [M.P. Feldman](https://scholar-google-com.libproxy.lib.unc.edu/citations?user=qZaKkrQAAAAJ&hl=en&oi=sra) (2016), “[Stepping up: an empirical analysis of the role of social innovation in response to an economic recession](http://cjres.oxfordjournals.org.libproxy.lib.unc.edu/content/early/2015/04/09/cjres.rsv008.abstract).” *Cambridge Journal of Regions, Economy and Society,* 34: 5 – 21.

Lanahan, L., A. Graddy-Reed, & M.P. Feldman, (2016) ‘The Domino Effects of Federal Research Funding,’ Plos ONE, 11(6): e0157325. doi:10.1371/ journal.pone.0157325

Kemeny, T., M. P. Feldman, F Ethridge, & T Zoller (2016), The economic value of local social networks. *Journal of Economic Geography*. 16 (5): 1101-1122. Awarded the 2016 Urban Land Institute/Journal of Economic Geography (JOEG) Best Paper Prize.

Lanahan, L. & M. P. Feldman, (2015), “Multilevel Innovation Policy Mix: A Closer Look at State Policies that Augment the Federal SBIR Program.” *Research Policy.  44 (7), 1387-1402.*

Miller, J.M. & M. P. Feldman. (2015), “Isolated in the Lab: Examining Dissatisfaction with Postdoctoral Appointments." *The Journal of Higher Education*. 86 (5), 697-724.

[Feldman](https://scholar-google-com.libproxy.lib.unc.edu/citations?user=qZaKkrQAAAAJ&hl=en&oi=sra), M.P. & N. Lowe. (2015), “[Triangulating regional economies: Realizing the promise of digital data](http://www.sciencedirect.com.libproxy.lib.unc.edu/science/article/pii/S0048733315000177).” *Research Policy*, 44 (9), 1785-1793.

Feldman, M.P., M. Kenney, & F Lissoni (2015), “The New Data Frontier.” *Research Policy* 44(9), 1629-1632.

Avnimelech, G. & M.P. Feldman (2015). “The stickiness of university spin–offs: a study of formal and informal spin–offs and their location from 124 US academic institutions.” *International Journal of Technology Management* 68 (1-2), 122-149.

[Feldman](https://scholar-google-com.libproxy.lib.unc.edu/citations?user=qZaKkrQAAAAJ&hl=en&oi=sra), M.P., [D.F. Kogler](https://scholar-google-com.libproxy.lib.unc.edu/citations?user=ITjJyOkAAAAJ&hl=en&oi=sra), & D.L. Rigby. (2015), “[rKnowledge: The Spatial Diffusion and Adoption of rDNA Methods](http://www.tandfonline.com.libproxy.lib.unc.edu/doi/abs/10.1080/00343404.2014.980799).” *Regional Studies*, 45(5):798-817.

Avnimelech, G., & M.P. Feldman. (2015), “The Stickiness of University Spin-offs: A study of formal and informal spin-offs and their location from 124 U.S. academic institutions.” *International Journal of Technology Management*, 68(1):122-149.

[Feldman](https://scholar-google-com.libproxy.lib.unc.edu/citations?user=qZaKkrQAAAAJ&hl=en&oi=sra), M.P. (2014), “[The character of innovative places: entrepreneurial strategy, economic development, and prosperity](http://link.springer.com.libproxy.lib.unc.edu/article/10.1007/s11187-014-9574-4).” *Small Business Economics*, 43(1): 9-20.

Fagerberg, J, M.P. Feldman & M. Shrolec (2014), “Technological dynamics and social capability: U.S. States and European Nations.” *Journal of Economic Geography.* 14(2): 313-337*.*

Miller, J.M. & M. P. Feldman. (2014), “The sorcerer’s postdoc apprentice: uncertain funding and contingent highly skilled labor.” *Cambridge Journal of Regions, Economy and Society.*

Feldman, M.P., & A. Graddy-Reed. (2014), “Accelerating Commercialization: A New Model of Strategic Foundation Funding.” *Journal of Technology Transfer,* 39(4):503-523.

Feldman, M.P., L. Lanahan & I. Lendel. (2014), “Experiments in the Laboratories of Democracy: State Scientific Capacity Building.” *Economic Development Quarterly,* 28 (2):107-131.

Feldman, M.P. & T. D. Zoller (2012), “Dealmakers in Place: Social Capital Connections in Regional Entrepreneurial Economies.” *Regional Studies,* 46(1) 23-37.

Colvas, J., K. [Snellman](http://scholar.google.com.mx/citations?user=a2ltrm0AAAAJ&hl=en&oi=sra), J. Bercovitz & M.P, Feldman, (2012), “Disentangling effort and performance: a renewed look at gender differences in commercializing medical school research.” *The Journal of Technology Transfer*, 37(4): 478-489.

Breznitz, S.M. & M.P. Feldman. (2012), “[The engaged university](http://dx.doi.org/10.1007/s10961-010-9183-6).” The Journal of Technology Transfer, 37(2): 139-157.

Feldman, M.P. & J.W. Yoon (2011), “[An empirical test for general purpose technology: an examination of the Cohen–Boyer rDNA technology](http://dx.doi.org/10.1093/icc/dtr040).” Industrial and Corporate Change. 21(2): 249-275.

Feldman, M.P. & N. Lowe. (2011), “Restructuring for Resilience.” *Innovations: Technology, Governance, Globalization,* 6 (1): 129-146.

Bercovitz, J.L., & M.P. Feldman (2011), “The Mechanisms of Collaboration Inventive Team Composition, Social Networks, and Geography.” *Research Policy*, 40(10): 81-93.

Avnimelech, G. & M.P. Feldman, (2010), “Regional Corporate Spawning and the Role of Homegrown Companies.”, Review of Policy Research, 27(4): 475-489.

Feldman, M.P. & D.F. Kogler (2010), “[Stylized facts in the geography of innovation](http://www.sciencedirect.com/science/article/pii/S0169721810010087).” *In*: Bronwyn H. Hall and Nathan Rosenberg, Editor(s)*, Handbook of the Economics of Innovation.* Vol 1: 381-410.

Feldman, M.P. & I. Lendel (2010),“Under the Lens: The Geography of Optical Science as an Emerging Industry.”[*Economic Geography*](http://www3.interscience.wiley.com.libproxy.lib.unc.edu/journal/121489989/home)**, 86 (2): 147-171.**

Audretsch, D.B., O. Falck, M. P. Feldman & S. Heblich (2010), “Local Entrepreneurship in Context.” *Regional Studies,* 42: 1-15.

Feller, I. & M. P. Feldman (2010), “[The commercialization of academic patents: black boxes, pipelines, and Rubik's cubes](http://www.springerlink.com/index/U1T12KV138715T36.pdf).” *The Journal of Technology Transfer*. 35(6): 597-616.

Slaughter, S., M.P. Feldman & S.L. Thomas (2009), “[US research universities' institutional conflict of interest policies](http://www.jstor.org/stable/10.1525/jer.2009.4.3.3).” *Journal of Empirical Research on Human Ethics: An International Journal*, 4(3): 3-20.

Simcoe, T.S, S. Graham, & M.P. Feldman (2009), “Competing on Standards? Entrepreneurship, Intellectual Property and Platform Technologies.” *Journal of Economics & Management Strategy* 18 (3): 275-816.

Lowe, N. & M.P. Feldman (2008), “Constructing entrepreneurial advantage: consensus building, technological uncertainty and emerging industries.” *Cambridge Journal of Regions, Economy and Society* 1(2): 265-284.

Bercovitz, J. & M.P. Feldman (2008), “Academic Entrepreneurs: Organizational Change at the Individual Level.” *Organization Science,* 19(1): 69–89.

Feldman, M.P. & N. Lowe. (2008), “Consensus from Controversy: Cambridge’s Biosafety Ordinance & the Anchoring of the Biotech Industry.” *European Planning Studies,* 16(3): 395–410.

Feldman, M. P. and J. Bercovitz (2007), “Fishing Upstream: Firm Innovation Strategy and University Research Alliances.” *Research Policy*. 36: 930-948*.*

Aharonson, B.S., J. C. Baum, & M. P. Feldman (2007), “Desperately seeking spillovers? Increasing returns, industrial organization and the location of new entrants in geographic and technological space.” *Industrial and Corporate Change.* 16: 89–130.

Buchman, T.G., J. Dushoff, P.R. Ehrlich, M.P. Feldman, S. Fitzpatrick, B. Levin, S. A. Levin, D. T. Miller, V. L. Patel, & P. Rozin (2006), “Enhancing the Use of Clinical Guidelines: A Social Norms Prospective.” *Journal of the American College of Surgeons* 202(5) 826–836.

Feldman, M. P. & M. R. Kelley (2006), “The *ex ante* Assessment of Knowledge Spillovers: Government R&D Policy, Economic Incentives and Private Firm Behavior.” *Research Policy,* 35: 1509–1521.

Feldman, M. P. & J. Bercovitz (2006), “Entrepreneurial Universities and Technology Transfer: A Conceptual Framework for Understanding Knowledge-Based Economic Development.” *Journal of Technology Transfer*, 31: 175–188.

Feldman, M.P. & R. Martin (2005), “Constructing Jurisdictional Advantage.” *Research Policy* 34:1235–1249*.*

Feldman, M. P., J. Francis & J. Bercovitz (2005), “Creating a Cluster While Building a Firm: Entrepreneurs and the Formation of Innovative Clusters.” *Regional Studies,* 39: 129–142.

Feldman, M. P. & P. Desrochers (2004), “Truth for Its Own Sake: Academic Culture and Technology Transfer at the Johns Hopkins University.” *Minerva*,24*:* 105–126.

Feldman, M. P. & J. Francis (2004), “Home Grown Solutions: Fostering Cluster Formation through Entrepreneurship” *Economic Development Quarterly,* 18: 127–137.

Feldman, M. P. & J. Francis (2003), “Fortune Favors the Prepared Region: The Case of Entrepreneurship and the Capitol Region Biotechnology Cluster.” *European Planning Studies* 11: 765–788.

Feldman, M. P. (2003), “The Locational Dynamics of the US Biotech Industry: Knowledge Externalities and the Anchor Hypothesis.” *Industry and Innovation,* 10(3): 311–328.

Audretsch, D. B. & M. P. Feldman. (2003), “Small-Firm Strategic Research Partnerships: The Case of Biotechnology.” *Technology Analysis & Strategic Management,* 15: 273–288.

Feldman, M. P. & P. Desrochers (2003), “The Evolving Role of Research Universities in Technology Transfer: Lessons from the History of Johns Hopkins University.” *Industry and Innovation,* 10: 5–24.

Feldman, M. P. & M. R. Kelley (2003), “Leveraging Research and Development: Assessing the Impact of the U.S. Advanced Technology Program.” *Small Business Economics,* 20: 153–165.

Feldman, M. P., I. Feller, J. Bercovitz & R. M. Burton. (2002) “Equity and The Technology Transfer Strategies of American Research Universities.” *Management Science,* 48: 105–121.

Feldman, M. P. & M. R. Kelley. (2002) “How States Augment the Capabilities of Technology-Pioneering Firms.” *Growth and Change,* 33: 173–195.

Feldman, M. P. (2001). “The Entrepreneurial Event Revisited: An Examination of New Firm Formation in the Regional Context.” *Industrial and Corporate Change,* 10: 861-891.

Bercovitz, J. E. L, M. P. Feldman, I. Feller, & R. M. Burton. (2001), “Organizational Structure as a Determinant of Academic Patent and Licensing Behavior: An Exploratory Study of Duke, Johns Hopkins, and Pennsylvania State Universities.” *Journal of Technology Transfer*, 26: 21–35.

Feldman, M.P. (2001), “The Internet Revolution and the Geography of Innovation.” *International Social Science Journal,* 54: 47–56.

Feldman, M. P. & C. Ronzio (2001), “Closing the Innovative Loop: Moving from the Laboratory to the Shop Floor in Biotechnology Manufacturing.” *Entrepreneurship and Regional Development,* 13: 1–16***.***

Feldman, M. P. (2000), “Where Science Comes to Life: University Biosciences, Commercial Spin-offs and Regional Economic Development.” *The Comparative Journal of Public Policy*, 2: 345–36.

Feldman, M. P. (1999), “The New Economics of Innovation, Spillovers and Agglomeration: A Review of Empirical Studies.” *The Economics of Innovation and New Technology,* 8: 5–25.

Feldman, M. P. & D. B. Audretsch (1998), “Innovation in Cities: Science-based Diversity, Specialization, and Localized Competition.” *European Economic Review*, 43: 409–429.

Feldman, M. P. & F. Lichtenberg (1998), “The Interaction Between Public and Private R&D Investment: Cross-Country Evidence from the European Community’s R&D Information Service.” *Annales D’Économie et de Statistique*, 49/50: 199–222.

Feldman, M. P. & Y. Schreuder (1996), “Initial Advantage: The Origins of the Geographic Concentration of the Pharmaceutical Industry in the Mid-Atlantic Region.” *Industrial and Corporate Change,* 5: 839–862.

Audretsch, D. B. & M. P. Feldman (1996), “Knowledge Spillovers and The Geography of Innovation and Production.” *American Economic Review,* 86: 630–640.

Feldman, M. P. (1996), “Geography and Regional Economic Development: The Role of Technology-Based Small and Medium Sized Firms.” *Small Business Economics,* 8:71–4.

Audretsch, D. B. & M. P. Feldman (1996), “Innovative Clusters and the Industry Life-cycle.” *The Review of Industrial Organization,* 11: 253–273.

Schreuder, Y., & M. P. Feldman (1995), “The Historical Development of the Pharmaceutical Industry.” *The Pennsylvania Geographer*, 23: 2: 3–22.

Feldman, M. P. (1994), “Knowledge Complementarity and Innovation.” *Small Business Economics,* 6: 363–372.

Feldman, M. P., & R. Florida (1994), “The Geographic Sources of Innovation: Technological Infrastructure and Product Innovation in the United States.” *Annals of the Association of American Geographers,* 84: 210–229.

Acs, Z. J., D. B. Audretsch, & M. P. Feldman (1994), “The Recipients of R&D Spillovers: Firm Size and Innovation.” *Review of Economics and Statistics,* 76: 336–340.

Feldman, M. P. (1994), “The University and High-Technology Start-ups: The Case of Johns Hopkins University and Baltimore.” *The Economic Development Quarterly*, 8: 67–77.

Feldman, M. P. (1994), “An Examination of the Geography of Innovation.” *Industrial and Corporate Change*, 2: 312–333.

Acs, Z. J., D. B. Audretsch, & M. P. Feldman (1993), “R&D Spillovers and Innovative Activity.” *Managerial and Decision Economics,* 15: 443–452.

Acs, Z. J., D. B. Audretsch & M. P. Feldman (1992), “The Real Effects of Academic Research: A Comment.” *American Economic Review*, 82: 67–76.

**Books**

Wisnioski, M., E. S. Hintz, M. Stettler Kleine, H. Fasihuddin, L.B. Cavagnaro, M. McManus, D. MacDonald, E. Arkilic, M. P. Feldman, J. Gustetic, B. Godin, E. S. Hintz, S. Pfotenhauer, L. D. Cook, A. Russell, L. Vinsel, N. Rusk, W. B. Carlson, L. Sanders, C. Ashcraft, E. Fisher, D. H. Guston, B Trinidad (2020). *Does America Need More Innovators?* Boston:MIT Press.

Clark, G., M. P. Feldman, M. Gertler & D. Wojcik, editors. (2018). *The New Oxford Handbook of Economic Geography.* Oxford: Oxford University Press.

Feldman, M. P., A. Graddy-Reed, L. Lanahan**,** G. McLaurin, K. Nelson, & A. Reamer (2012), ‘[Innovative Data Sources for Regional Economic Analysis](http://maryannfeldman.web.unc.edu/files/2012/01/Innovative-Data-Sources-for-Regional-Economic-Analysis.pdf)’ ([Kindle edition](http://www.amazon.com/dp/B00DTWI1ES))**.**

Bathelt, H., M.P. Feldman & D.F. Kogler (eds.) (2011), *Dynamic Geographies of Knowledge Creation and Innovation*, Routledge, Taylor and Francis.

Feldman, M. P., & G. D. Santangelo, editors. (2008). *New Perspectives in International Business Research*. Bingley, UK: Emerald JAI.

Braunerhjelm, P. & M. P. Feldman, editors. (2006; 2007). *Cluster Genesis: The origins and emergence of technology-based economic development***.** Oxford: Oxford University Press.

Feldman, M. P., A.N. Link & D. S. Siegel (2002). *The Economics of Science and Technology.* Boston: Kluwer Academic Publishers.

Feldman, M. P. & N. Massard, editors. (2002). *Institutions and Systems in the Geography of Innovation.* Boston: Kluwer Academic Publishers.

Feldman, M. P. & A. N. Link, editors. (2001). *Innovation Policy in the Knowledge-Based Economy.* Boston: Kluwer Academic Publishers.

Clark, G., M. P. Feldman & M. Gertler, editors. (2000, 2002, 2006). *The Handbook of Economic Geography.* Oxford: Oxford University Press.

Feldman, M. P. (1994, 1999). *The Geography of Innovation.* Boston: Kluwer Academic Publishers.

**Awards and Honors**

Executive Committee, Academy of Management Technology, Innovation and Management division, 2020-2025.

Academy of Management Distinguished Scholar Award for the Technology, Innovation and Management division, August 2018.

Visiting Professor, Program on Knowledge Dynamics, Industry Evolution, Economic Development, University of Nice. July 2018.

Jena Lecture in Economic Geography. Institut für Geographie, Lehrstuhl für Wirtschaftsgeographie May 2018.

Urban Land Institute/Journal of Economic Geography (JOEG) Best Paper Prize 2016.

The Global Entrepreneurship Research Award 2013

Roepke Distinguished Lecture in Economic Geography, April 2009

Visiting Scholar, Norwegian Academy of Sciences, Oslo Norway, 2008

Alumni Advisory Board, Heinz School, Carnegie Mellon University (2006 – 2009).

Choice Magazine’s “Outstanding Academic Book” award book for the Oxford Handbook of Economic Geography, 2002.

Research Fellow, 1993 – 1995, Hagley Center for the History of Business, Technology and Society, Wilmington, Delaware

First Prize Award, 1985, General Motors Ninth Annual Intercollegiate Business Policy Program

Research Fellow, 1983-1984, Center for Financial Management, Carnegie Mellon University

Carnegie Mellon University Fellowship Award, 1980-1982

**Professional Activities:**

Co-Chair, National Academies of Science, Engineering and Medicine (NASEM) study of the Small Business Innovation Research Program (SBIR) at the National Institutes of Health. (2020 – 2022).

Division Program Chair – Elect & PDW Program Chair, Technology and Innovation Management Division (TIM), Academy of Management. (2019 – 2020).

Co-Chair, National Academies of Science, Engineering and Medicine (NASEM) study of the Small Business Innovation Research Program (SBIR) at the National Science Foundation (2020 – 2022).

Advisory Board Member (external), Knight Campus, University of Oregon (2018 – 2022).

Co-Chair, National Academies of Science, Engineering and Medicine (NASEM) study of the Small Business Innovation Research Program (SBIR) at the Department of Energy (2018 –2020).

Board Member, Center for American Entrepreneurship (2018 – present)

Board Member, North Carolina Financing Roundtable, Council of Development Finance Agencies (2018 – present).

Co-Chair, Oxford Residential Week for Entrepreneurship Scholars, Saïd Business School and Green Templeton College, University of Oxford (2018 – present).

Advisory Board, [Danish Research Unit for Industrial Dynamics (DRUID)](http://www.druid.dk/), Copenhagen Business School (2003 – present)

Member of the Innovation Forum, the National Academies of Sciences (NAS), (2015 – present).

Co-Chair, White House Interagency Working Group on Science Policy (2014 – 2016).

Ontario Brain Institute, External Review Committee (2017).

Social, Economic and Political Science (Section K) Section Head, American Association for the Advancement of Science (AAAS) (2015 – 2017).

Technology & Innovation Management (TIM) Division Representative-at-Large, Academy of Management (2012 – 2015).

Advisory Committee, Lund University Center for Innovation and Entrepreneurship, Lund University (2013– 2016)

Advisory Board, Association of University Technology Managers (AUTM), Committee on Metrics (2007 – 2014)

Advisory Board, [Institute for Genome Science and Policy (IGSP)’s Center for Genome Ethics, Law, & Policy](http://www.genome.duke.edu/centers/gelp), Duke University (2005 – 2012).

Elected to membership of the Cosmos Club, Washington, D.C. January 2010

Advisory Board, Finger Lakes WIRED project (2006 – 2008).

UK~Innovation Research Center, Advisory Board, Imperial College and Cambridge University, (2008-2010)

Expert Committee, the Council on Competitiveness (2001 – 2008).

Advisory Board, Center for Innovation and Entrepreneurship, Rotman School of Management, University of Toronto (2003 – 2006)

Executive Committee for the Centre for Innovation Law and Policy, Faculty of Law, University of Toronto (2003 – 2006)

Board of Directors, University of Toronto Innovation Foundation (2003 – 2005).

Senior Fellow**,** Johns Hopkins University Institute for Information Security (JHUISI), Johns Hopkins University (2002-2004).

**Research Projects and Grants**

Principal Investigator, December 2019 – December 2023, SCISPBIO Collaborative, National Science Foundation, *Financing the Biomedical Research Enterprise*.

Principal Investigator, December 2019 – August 2020, NC Idea, North Carolina Entrepreneurship Data Initiative.

Principal Investigator, June 2019 – June 2020, Sloan Foundation, *Entrepreneurs' Transition to Science Philanthropy*

Principal Investigator, May 2018 – December, 2019. Ewing Marion Kauffman Foundation, Early Stage Evaluation of The Kauffman Foundation’s Eship Communities Project.

Principal Investigator, September 2017 – June, 2019, Ewing Marion Kauffman Foundation, *Shoring up the Entrepreneurial Ecosystem through Real-Time Data Analysis.*

Principal Investigator, January 2015 – December 2017, *Academic Research Centers and Institutes: Trends, Motivations, and Returns on Investments for High Tech Entrepreneurs.*

Principal Investigator, January 2015 – December 2016, Ewing Marion Kauffman Foundation, *Entrepreneurial Pathways.*

Principal Investigator, January 2015 – December 2015. Ewing Marion Kauffman Foundation*. Influencers and Institutions: Understanding their contribution to the birth and sustained growth of Austin's entrepreneurial economy.*

Principal Investigator, July 2013 - June, 2016, National Science Foundation, *Circling the Triangle: Understanding Dynamic Regional Economies.*

Principal Investigator, July 2012 - June, 2016, National Science Foundation, *The Evolving Research Enterprise*: *The Role of Foundations and Strategic Funding.*

Principal Investigator, January 2012 – December 2014, U.S. Dept of Commerce, Economic Development Administration, *Research Design Project to Assess and Evaluate Economic Development Investment.*

Principal Investigator, July 2008 – April 2010, Ewing Marion Kauffman Foundation, *Partnerships for Innovation.*

Co-Principal Investigator, October 2007 – September 2011, National Science Foundation, Program on the Science of Science and Innovation Policy, *State Science Policies: Modeling Their Origins, Nature, Fit, and Effects on Local Universities.*

Co-Principal Investigator, September 2006 – August 2008, National Institutes of Health, Program on Research Integrity, *Systemic Conflict of Interest* *at Research Universities*

Principal Investigator, July 1999 – May 2008, Andrew W. Mellon Foundation**,** *Understanding Evolving University–Industry Relationships*.

Co-Principal Investigator, June 2006 – October 2007, Marion Ewing Kaufman Foundation. *Early Origins of the Biotech Industry.*

Principal Investigator, October 2003 – April 2008, Social Sciences and Humanities Research Council of Canada (SSHRC), *Emerging Industries from Academic Research.*

Principal Investigator, May 2005 – May 2006, Sun Micro Systems, *Entrepreneurship and Standard Setting Organizations.*

Principal Investigator, May 2004 – May 2006. Canadian Institutes of Health Research, *Bringing Science to Life Workshop.*

Co-Principal Investigator, October 2002 – October 2003. National Science Foundation, *Research Policy as an Agent of Change. NSF Workshop.*

Principal Investigator, May 1998 - June 2001. Advanced Technology Program, National Institute for Standards and Technology, *Path to Technology Development and Commercialization.*

Principal Investigator, August 1999 - August 2001. National Science Foundation. *The Role of Publicly-Funded Research in the Formation and Growth of Private Enterprise: Linking Scientists and Bioscience Firms.*

Principal Investigator, March 1998 - June 1998. MdBio. *The Commercialization of Maryland Bioscience: Linking Technology Frontiers to New Firm Start-ups.*

Principal Investigator, August 1997 - July 1998. German Marshall Fund, *The Diffusion of Knowledge in Biotechnology.*

Principal Investigator, October 1996 - January 1998. Abell Foundation, *Biotech Scale-up and Manufacturing.*

Principal Investigator, April 1996 - April 1997. Committee on Logistics and the Economy.

Principal Investigator, March 1995 - February 1998. National Science Foundation, *Pharmaceutical Compound: An historical investigation of the geographic concentration of the pharmaceutical industry in the Mid-Atlantic region.*

Research Fellowship, June 1993 - December 1993. Hagley Center for the History of Business, Technology and Society. Wilmington, Delaware.

Principal Investigator, January 1993- July 1994. Small Business Administration, *Studies of Core Innovative Agglomerations, Small Firm Barriers and Contributions.*

Co-Principal Investigator, October 1985 - March 1986 Edison Electric Institute, *The Implications of Changing Demographic Dynamics upon the Electric Utility Industry.*

**Editorial Activities**

Editor, *Research Policy* (2014 – present)

Associate Editor, [Management Science](http://mansci.pubs.informs.org/) (2002 – 2009)

Book Review Editor, *Growth and Change* (1998 – 2001).

Book Series Editor *Regional Development and Public Policy*, Book Series (Routledge) (2004 - 2020)

*Hodges Series on Business History, Place and Policy* (UNC Press) 2012 – 2018t

Editorial Boards: *Innovations! (2005 – present)*

[*Journal of Technology Transfer*](http://www.springerlink.com/openurl.asp?genre=journal&eissn=1573-7047) (2003 – 2010)

 *Economia Politica* (2005 –2008)

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