

MARGARET E. BLUME-KOHOUT

tel. 505-382-0826 (mobile) email: meg@mbkanalytics.com

EDUCATION

- Ph.D. Policy Analysis, Pardee RAND Graduate School 2009
Dissertation: Essays on Government Policy and Pharmaceutical Innovation
Kauffman Foundation Dissertation Fellowship, 2009
- M.S. Environmental Health Sciences, University of California at Berkeley 2002
Program in Global Health, Environment and Development
- B.A. Economics, Williams College 1996

RESEARCH AND TEACHING FIELDS

Fields: Applied Microeconomics; Quantitative Methods; Public Economics & Policy Analysis
Domains: Labor / Demographic Economics – Gender, Race/Ethnicity, Immigration; Health Policy;
Higher Education & STEM Workforce; Innovation, Entrepreneurship, & Growth.

PROFESSIONAL EXPERIENCE

- Colgate University, Hamilton, NY 2016 – Present
Charles Evans Hughes Visiting Assistant Professor (endowed chair), 2018 – 2019
Visiting Assistant Professor, Department of Economics, 2016 – 2018
- New Mexico Consortium, Albuquerque, NM 2013 – 2017
Senior Research Economist
- Mount Holyoke College, South Hadley, MA 2015 – 2016
Visiting Faculty, Department of Economics
- MBK Analytics LLC, Albuquerque, NM 2013 – 2016
Founder & CEO
- University of New Mexico, Albuquerque, NM 2010 – 2013
Assistant Professor, Department of Economics
Senior Fellow, Robert Wood Johnson Foundation Center for Health Policy
- University of Waterloo, Waterloo, ON, Canada 2009 – 2010
Assistant Professor, Department of Economics
- RAND Corporation, Santa Monica, CA 2004 – 2010
Adjunct Associate Economist, 2009 – 2010
Doctoral Fellow and Assistant Policy Analyst, 2004 – 2009
- Los Alamos National Laboratory, Los Alamos, NM 2002 – 2005
Graduate Research Assistant, Basic and Applied Simulation Sciences

PUBLICATIONS AND RESEARCH PAPERS

Peer-Reviewed Journal Articles

Blume-Kohout ME, Adhikari D.* (2016) Training the Scientific Workforce: Does Funding Mechanism Matter? *Research Policy*, 45(6): 1291-1303. doi: 10.1016/j.respol.2016.03.011.

Blume-Kohout ME. (2016) Why Are Some Foreign-Born Workers More Entrepreneurial Than Others? *Journal of Technology Transfer*, 41(6): 1327-1353. doi: 10.1007/s10961-015-9438-3.

Blume-Kohout ME, Kumar K, Lau C,* Sood N. (2015) Effects of Federal Research Funding on Formation of University-Firm Biopharmaceutical Alliances. *Journal of Technology Transfer*, 40(5): 859-876. doi: 10.1007/s10961-014-9374-7.

Blume-Kohout ME, Kumar K, Sood N. (2015) University R&D Funding Strategies in a Changing Federal Funding Environment. *Science & Public Policy*, 42(3): 355-368. doi: 10.1093/scipol/scu054.

Blume-Kohout ME, Clack JW.* (2013) Are Graduate Students Rational? Evidence from the Market for Biomedical Scientists. *PLoS ONE* 8(12): e82759. doi:10.1371/journal.pone.0082759

Blume-Kohout ME, Sood N. (2013) Health Insurance Expansions and Pharmaceutical Markets. *Harvard Health Policy Review*, 14(1):17-19.

Blume-Kohout ME, Sood N. (2013) Market Size and Innovation: Effects of Medicare Part D on Pharmaceutical Research and Development. *Journal of Public Economics*, 97:327-336. doi:10.1016/j.jpubeco.2012.10.003

Blume-Kohout ME. (2012) Does Targeted, Disease-Specific Public Research Funding Influence Pharmaceutical Innovation? *Journal of Policy Analysis and Management*, 31(3): 641-660. doi: 10.1002/pam.21640

Peer-Reviewed Reports, Book Chapters, and Invited Papers

Blume-Kohout ME. (2017) On What Basis? Seeking Effective Practices in Graduate STEM Education. Commissioned paper for National Academies of Sciences, Engineering, and Medicine Committee on Revitalizing Graduate STEM Education for the 21st Century.

Blume-Kohout ME. (2017) “Gender and Postgraduate Training Environments in STEM Fields Entrepreneurship” In *Gender and Entrepreneurial Activity*, ed. Albert N. Link. Edward Elgar.

Blume-Kohout ME. (2016) Imported Entrepreneurs: Foreign-Born Scientists and Engineers in U.S. STEM Fields Entrepreneurship. U.S. Small Business Administration, Office of Advocacy Report no. 432.

Blume-Kohout ME, Leonard SR, Novak-Leonard JL. (2015) When Going Gets Tough: Barriers and Motivations Affecting Arts Attendance. National Endowment for the Arts, Office of Research and Analysis Research Report no. 59.

PUBLICATIONS AND RESEARCH PAPERS, continued

Peer-Reviewed Publications, continued

* indicates student co-author

Blume-Kohout ME. (2014) Understanding the Gender Gap in STEM Fields Entrepreneurship. U.S. Small Business Administration, Office of Advocacy Report no. 424.

Garber S, Gates S, **Blume-Kohout ME**, Burgdorf J, Wu H. (2011) Challenges to Value-Enhancing Innovation in Health Care Delivery: Commonalities and Contrasts with Drugs and Devices. RAND: OP-341-EMKF.

Fossum D, Eiseman E, Moreno C, Painter LS, **Blume-Kohout ME.** (2009) Innovation in Academe: Federal R&D Funding and the Patenting Activities of U.S. Universities and Colleges. RAND: TR-749-EMKF.

Thompson D, Hylan TR, McMullen W, **Romeis ME**, Buesching D, Oster G. (1998) Predictors of a Medical-Offset Effect Among Patients Receiving Antidepressant Therapy. *American Journal of Psychiatry*, 155(6): 824-827.

Conference Proceedings: Statistics & Computer Science

Park J, **Blume-Kohout ME**, Krestel R, Nalisnick E,* Smyth P. (2016) Analyzing NIH Funding Patterns over Time with Statistical Text Analysis. *AAAI Workshop on Scholarly Big Data*, February 2016.

Blume-Kohout ME, Hengartner NW. (2006) Insufficiency of the Uniform Mixing Assumption in Epidemic Models: A Cautionary Tale. *Proceedings of the American Statistical Association*, First Annual Conference on Quantitative Methods & Statistical Applications in Defense and National Security (SDNS).

Manuscripts In Preparation and Under Review

“The Affordable Care Act and Women’s Self-Employment.” Presented at the Kauffman Entrepreneurship Scholars (2017) and American Society of Health Economists (2018) meetings.

“Incentivizing STEM Participation: Evidence from the SMART Grant Program,” with Jacob Scott* and Jeffrey Marr*.

“Role Models, Aid, or Peer Effects? Correlates of Persistence in STEM Majors,” presented at the 2018 Association for Public Policy Analysis & Management (APPAM) Fall Research Conference.

“Dynamic Effects of Research Funding Sources on University Patenting.” Presented at the APPAM Fall Research Conference (2016).

Other Writings

Blume-Kohout ME. (2017) Book Review of *The University and the Economy: Pathways to Growth and Economic Development*, by Aldo Geuna and Federica Rossi. *Science and Public Policy* 44(1): 147-148. doi: 10.1093/scipol/scw040

PUBLICATIONS AND RESEARCH PAPERS, continued

Other Writings, continued

Blume-Kohout, ME, Kumar KB, Sood N. (2009) Federal Life Sciences Funding and University R&D. NBER Working Paper No. 15146.

Sood N, Sun E, Zhou X, **Blume-Kohout ME**. (2008) Potential Effects of Introducing Behind the Counter Drugs. RAND: WR-608-ASPE.

TEACHING EXPERIENCE

Courses Taught

Introductory Economics Principles (undergraduate)

Fall 2018, Fall 2017 (x2), Spring 2017 (x2), Fall 2016 (x2), Spring 2016, Fall 2015

Intro Microeconomics only: Summer 2011, Fall 2010

University of California, Berkeley: Fall 2001 (Head TA); Spring 2001, Fall 2000 (TA)

Econometrics & Regression Analysis (undergraduate & graduate core)

Undergraduate: Spring 2019 (expected), Spring 2017, Fall 2015, Winter 2010

PhD Core Courses: Spring 2012, Spring 2011

RAND Graduate School “Regression Analysis” PhD core course: Winter 2007 (TA)

Public Economics, Welfare Economics, & Cost-Benefit Analysis (undergraduate & graduate)

Colgate University senior seminar: Fall 2017

Undergraduate electives: Spring 2016, Winter 2010, Fall 2009, Winter 2009

Graduate field courses: Fall 2012, Spring 2011

Interdisciplinary Scientific Perspectives (undergraduate, no-prereqs)

Colgate University, Spring 2019 (expected): “In Data We Trust” – intro to data science and machine learning, and societal implications of big data algorithms

Mount Holyoke College, Spring 2016: “Economics of Science & Science Policy”

Gender in the Economy (undergraduate, 200-level)

Colgate University: Fall 2018, Spring 2018 (x2)

Health Economics (graduate)

Spring 2012, Fall 2009

Applied Microeconomic Theory

American Economic Association Summer Program: Summer 2012

RAND Graduate School “Games & Information” PhD core course: Spring 2007, 2006 (TA)

Independent Study (graduate & undergraduate): 3 semester courses supervised

Advisor for three students’ Master’s theses, completed 2011-2012.

RESEARCH FUNDING

Active Projects

Evaluating Impact of Student Debt on Early Career Choices 2017 – Present
 Principal Investigator, Colgate University: \$230,647
 National Science Foundation award #1735883

Completed Support

Balancing the Portfolio: Efficiency and Productivity of Federal Biomedical R&D Funding. Principal Investigator, New Mexico Consortium: \$ 385,446. 2012 – 2017
 National Science Foundation awards #1158697 (UNM) and #1355279 (NMC)

2017 Survey of Public Participation in the Arts: Planning Phase and Pilot Study Project Director, MBK Analytics LLC: \$ 146,830. 2015 – 2016
 National Endowment for the Arts, Contract C15-59

Use of Institutional Data to Identify Predictors of STEM Degree Completion Principal Investigator, New Mexico Consortium: \$ 49,827. 2015 – 2016
 National Science Foundation EAGER award #1546725

Research on Immigrants in STEM Fields Entrepreneurship Project Director, MBK Analytics LLC: \$ 57,947. 2014 – 2015
 U.S. Small Business Administration, Contract SBAHQ-14-M-0106

General Social Survey Analysis and Report Project Director, MBK Analytics LLC: \$ 102,783 2013 – 2014
 National Endowment for the Arts, Contract C13-72.

Research on Gender Differences in STEM Fields Entrepreneurship Project Director, MBK Analytics LLC: \$ 83,965 2013 – 2014
 U.S. Small Business Administration, Contract SBAHQ-13-M-0203

Effects of Federal R&D Funding on the Biomedical Sciences Workforce Principal Investigator, UNM RWJF Center for Health Policy: \$ 233,280 2011 – 2013
 National Institutes of Health # U01GM099002

Federal Funding of University R&D – The Pathway to Commercialization Co-PI, UNM RWJF Center for Health Policy sub-award: \$ 16,020 2011 – 2012
 National Science Foundation # 1064215

Dynamic Modeling for University Production 2012
 UNM Research Allocations Committee (RAC) Grant 12-19: \$ 4,000

Effects of Federal R&D Funding on University Patenting 2011
 UNM Research Allocations Committee (RAC) Grant 11-35: \$ 4,000

Kauffman Dissertation Fellowship 2009
 Ewing Marion Kauffman Foundation: \$ 20,000

AWARDS & HONORS

Charles Evans Hughes Visiting Chair in Government and Jurisprudence Colgate University	2018
Class of 2018 Torch Medal “in recognition of the positive impact and personal influence on a graduating member of the senior class,” Colgate University	2018
Kit and Mary Ann Hagopian & Anne and James Rothenberg Dissertation Awards Pardee RAND Graduate School	2007
RAND Merit Spot Bonus Award For “leadership of the Student On-The-Job Training brokerage and general giving of time to provide thoughtful advice on issues we’re confronting”	2007
Donald and Susan Rice Scholarship Pardee RAND Graduate School	2004
Outstanding Graduate Poster Presentation in Mathematics Student Symposium, Los Alamos National Laboratory	2003
Public Health Alumni Association Fellowship School of Public Health, University of California, Berkeley	2000

INVITED PRESENTATIONS

Predictors of Entrepreneurship Among High-Skilled Foreign-Born Workers in the US Immigration Economics Conference, Cato Institute, September 2.	2016
Adventures in Causal Inference: Does Public R&D Funding Influence Drug Development? Sandia National Laboratories, April 19.	2016
Training Environments & Diversity in the STEM Workforce NIH and the Science of Science and Innovation Policy Workshop, April 8.	2016
Dynamic Effects of Research Funding Sources on University Patenting Economics Department Seminar, Middlebury College, March 11.	2016
Diversity and Engagement in the Scientific Workforce Public Lecture, Middlebury College, March 10.	2016
Funding Diversity: Debt and Career Choice Among New PhDs Glenn School of Public Affairs, Ohio State University, October 29.	2013
Assessing the Value of Biomedical Research NIH Scientific Management Review Board, June 5.	2013
Effects of Changes in Federal Funding for Academic Life Sciences R&D Harvard Business School / Econ Dept seminar series, March 8.	2013
Effects of NIH R&D Funding on the Biomedical Workforce US Dept of Agriculture Economic Research Service, April 11.	2012

CONFERENCE ACTIVITIES

Conference Organizing

Organizing Committee Member, Kauffman Entrepreneurship Scholars Conference 2017, 2014

Program Committee Member and Co-Chair, Science & Technology Policy track, 2016, 2015
 Association for Public Policy and Management (APPAM) Fall Research Conferences

Conference Research Presentations

The Affordable Care Act and Women's Self-Employment
 American Society of Health Economists (ASHEcon), June 11, 2018.

Belonging in Science: Gender, Values, Priorities, and Satisfaction in STEM Occupations
 APPAM Fall Research Conference, November 14, 2015.
 Atlanta Conference on Science and Innovation Policy, September 19, 2015.

Gender and Institutional Environments in STEM Innovation & Entrepreneurship
 Society of Labor Economists Annual Meeting, June 28, 2015.
 APPAM Fall Research Conference, November 7, 2014.

Funding Diversity: Debt and Career Choices of New PhDs
 American Economic Association (AEA)/ASSA Annual Meetings, January 3, 2014.
 Southern Economic Association Annual Meeting, November 25, 2013.

Training the Biomedical Workforce: Does Funding Mechanism Matter?
 American Economic Association (AEA)/ASSA Annual Meetings, January 3, 2014.
 APPAM Fall Research Conference, November 8, 2012.

Effects of Academic R&D Funding Sources on University Patenting
 International Industrial Organization Conference, March 17, 2012.
 Southern Economic Association Annual Meeting, November 20, 2011.

Productivity Differences Across Topics in Federal R&D Funding
 APPAM Fall Research Conference, November 9, 2012.
 Atlanta Conference on Science and Innovation Policy, September 17, 2011.

Federal Funding and University Research and Development
 National Science Foundation SciSIP Program PI Conference, September 20, 2012.
 Western Economic Association International Conference, July 2, 2011.
 International Industrial Organization Conference, April 10, 2011.

The Impact of Medicare Part D on Pharmaceutical Innovation
 International Industrial Organization Conference, April 9, 2011.

Federally-Funded Biomedical Research and Pharmaceutical Research and Development
 First Annual Health Econometrics Workshop (AHEW), Chicago, IL, October 2, 2009.

Discussant or Chair: ASHEcon (2018), AEA (2016, 2014), APPAM (2016, 2015, 2014, 2012),
 AOM (2014), SEA (2013), WEAI (2011), IIOC (2012, 2011).

PROFESSIONAL SERVICE

Faculty Instructor for Colgate's High School Seminar Series (community outreach), 2018

Commissioned Paper, National Academies' Committee on "Revitalizing Graduate STEM Education for the 21st Century," 2017

Invited Panelist, RAND-NSF Delphi Panel on R&D Impact Metrics, 2016

Invited Participant, AAAS Workshop "Assessing the Research Outputs and Policy Importance of NSF's SciSIP Program," 2014

Reviewed manuscripts for Nature, Research Policy, Journal of Policy Analysis and Management, PLOS ONE, PLOS Biology, Economic Inquiry, Journal of Technology Transfer, Economic Bulletin, American Journal of Health Economics, European Journal of Health Economics, Journal of Law, Economics and Organization, and Small Business Economics.

Reviewed grant proposals for the National Science Foundation (Invited panel member, 2018; ad hoc reviewer 2017, 2016, 2014, 2013, 2012), Swiss National Science Foundation (2017), and the Ewing Marion Kauffman Foundation (2015).

Reviewed conference submissions for Academy of Management (2016, 2015, 2014), APPAM (2016, 2015), Atlanta Conference on Science and Innovation Policy (2011), American Society of Health Economists (2018, 2011).

Professional Affiliations: Association for Public Policy and Management, American Statistical Association, American Economic Association, Academy of Management, Society of Labor Economists, American Society of Health Economists, Entrepreneurship Research Society, International Association for Feminist Economists.

OTHER WORK EXPERIENCE

Tufts University School of Medicine Research Assistant to Dr. Robert Morris, Environmental Epidemiology	1998 – 1999
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Arthur D. Little, Inc., Cambridge, MA Analyst, Healthcare Industry Strategic Management Consulting	1997 – 1998
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Policy Analysis Inc. (PAI), Brookline, MA Research Assistant, Health Economics Contract Research	1996 – 1997
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ADDITIONAL ACADEMIC TRAINING

University of New Mexico, Los Alamos, NM Completed post-baccalaureate coursework in linear algebra, differential equations, discrete structures, graph theory, combinatorics, and intermediate programming (C++).	2002 – 2003
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