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VITA

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OFFICE ADDRESS

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FIELDS OF SPECIALIZATION

Microeconomic Theory, Industrial Organization, University Invention and Technology Transfer,
Environmental Economics

EDUCATION

Ph.D., Northwestern University, 1980.
Dissertation: "The Adoption and Diffusion of Innovations Under Uncertainty"
(Co-Chairs: John Ledyard and Mort Kamien).
B.A., Economics, Summa Cum Laude, University of Kansas, 1971.
Phi Beta Kappa, 1970.

APPOINTMENTS AND POSITIONS

Gilbert F. Schaefer Chair in Economics: July 1, 2011 - present.
Chairperson, Department of Economics, University of Notre Dame: July 1, 2001 - June 30, 2003,
July 1, 2010 - June 30, 2014.
Chairperson, Department of Economics and Econometrics, University of Notre Dame: July 1,
2003 - June 30, 2010.
Fellow, *International Journal of Industrial Organization*: 1997 - present.
Co-Editor, *International Journal of Industrial Organization*: 2004 - 2010.
Professor of Economics, University of Notre Dame: 2000 - present.
Faculty Fellow, Kellogg Institute for International Studies: 2001 - present.
Faculty Fellow, Institute for Educational Initiatives: 2007 - present.
Faculty Fellow, Notre Dame Energy Center: 2007 - present.
Associate Editor, *International Journal of Industrial Organization*: 1993 - 2004.
Associate Editor, *Southern Economic Journal*: 1997 - 2003.
Visiting Scholar, Managerial Economics and Decision Sciences Department, J. L. Kellogg
Graduate School of Management, Northwestern University: Winter and Spring, 2000.
Gatton Endowed Professor of Economics, University of Kentucky: 1999 - 2000.
Gatton Research Professor, University of Kentucky: 1997 - 1998.
Ashland Oil Research Professor, University of Kentucky: 1990 - 1997.
Professor of Economics, University of Kentucky: 1992 - 2000.

Director of Graduate Studies in Economics, University of Kentucky: 1991 - 1999.
Associate Professor of Economics, University of Kentucky: 1989 - 1992.
Visiting Scholar, Center for Mathematical Studies in Economics and Management Science,
Northwestern University: Spring, 1985.
Assistant Professor of Economics, Ohio State University: 1980 - 1987.
Lecturer, Department of Economics, Ohio State University: 1979 - 1980.

GRANTS, AWARDS, AND FELLOWSHIPS

Presidential Award for Distinguished Service, University of Notre Dame, 2014.
National Oceanic and Atmospheric Administration: "Forecasting Spread and Bioeconomic Impacts of Aquatic Invasive Species from Multiple Pathways to Improve Management and Policy in the Great Lakes," September 1, 2009 - August 31, 2014 (Co-PI with D. Lodge), \$2,474,560.
Ewing Marion Kaufman Foundation: "University Research and Faculty Consulting," June 1, 2006 - May 31, 2007, \$44,775.
Ewing Marion Kaufman Foundation: "How Effective Are Technology Transfer Officers In Achieving Their Objectives?," September 1, 2006 - August 31, 2007, \$55,125.
Ewing Marion Kaufman Foundation and National Bureau of Economic Research: "University Invention, Entrepreneurship, and Start-Ups," (with C. Chukumba), 2004 - 2005, \$10,000.
Sloan Foundation and National Bureau of Economic Research Grant: "Proofs and Prototypes for Sale: The Tale of University Licensing" (with M. Thursby), 1997-98, \$10,000.
Ashland Oil Summer Research Grant, College of Business and Economics, University of Kentucky: 1988, 1989, 1990, 1991, 1993, 1997.
NSF Grant No. IST-8510068, "A Decision-Theoretic Approach to Innovation and Technology Transfer," principal investigator: July 1, 1985 - December 31, 1986.
College of Social and Behavioral Sciences Research Fellowship, Ohio State University: July 1, 1984 - June 30, 1985.
NSF Grant No. IST-8208607, "Informational Aspects of Innovation Adoption and Diffusion," principal investigator: July 1, 1982 - September 30, 1984.
NDEA Title IV Fellowship, Northwestern University: 1972-1974.
University Fellowship, Northwestern University: 1971-1972.

REFEREED PUBLICATIONS

"University/Industry Linkages in the Support of Biotechnology Discoveries," *Annual Reviews in Resource Economics*, 8: 377-96, October, 2016.
"Risk Analysis and Bioeconomics of Invasive Species to Inform Policy and Management," *Annual Review of Environment and Resources*, 41: 453-488, September, 2016 (with D. Lodge, P. Simonin, S. Burgiel, et al.).
"An Estimate of the Age Distribution's Effect on Carbon Dioxide Emissions," *Economic Inquiry*, 914-929, April, 2014 (with S. Lugauer and C. Sadler).
"The Potential Tradeoff Between Artisanal Fisheries Production and Hydroelectricity Generation on the Kafue River, Zambia," *Freshwater Biology*, 640-654, April, 2013 (with A. Deines, C. Bee, C. Katongo, and D. Lodge).

- “Startup Firms from Research in U. S. Universities,” in *Handbook of Research on Innovation and Entrepreneurship* (ed. Audretsch, D.B., O. Falck, S. Heblich and A. Lederer), 273-289, Edward Elgar, 2011.
- “Patent Races,” *The New Palgrave Dictionary of Economics*, online edition, 2009.
- “Strategic Debt and Patent Races,” *International Journal of Industrial Organization*, 887-916, September, 2004 (with D. Showalter).
- “Multiplant Firms and Innovation Adoption and Diffusion,” *Southern Economic Journal*, 661-671, January, 2004.
- “The Disclosure and Licensing of University Inventions: The Best We Can Do with the S**t We Get to Work With,” *International Journal of Industrial Organization*, 1271-1300, November, 2003 (with J. Thursby and M. Thursby).
- “Innovative Leadership: First-Mover Advantages in New Product Adoption,” *Economic Theory*, 97-116, January, 2003.
- “Transboundary Air Pollution, Aid, and Political Uncertainty,” *Journal of Environmental Economics and Management*, 93-112, January, 2002 (with P. Chambers).
- “Strategic Intrafirm Innovation Adoption and Diffusion,” *Southern Economic Journal*, 120-132, July, 2001.
- “Proofs and Prototypes for Sale: The Tale of University Licensing,” *American Economic Review*, 240-259, March, 2001 (with M. Thursby).
- “Objectives and Characteristics of University TTOs: A Survey of Major U.S. Universities,” *Journal of Technology Transfer*, 59-72, January, 2001 (with J. Thursby and M. Thursby).
- “Product Differentiation and Public Education,” *Journal of Public Economic Theory*, 69-93, January, 2001 (with W. Hoyt).
- “Debt-for-Nature Swaps, Nash Equilibrium, and the Bargaining Outcome,” *Ecological Economics*, November, 1996 (with P. Chambers and J. Whitehead).
- “Precommitment in a System of Hierarchical Governments,” *Regional Science and Urban Economics*, 481-504, August, 1996 (with W. Hoyt).
- “Patent Races, Product Standards, and International Competition,” *International Economic Review*, 21-49, February, 1996 (with M. Thursby).
- “Government Revenue Collection and Time Consistency,” *Public Finance*, 57-71, March, 1994 (with E. Toma and M. Toma).
- “Sharing Cost Information: A Counterexample,” *Economic Theory*, 589-592, June, 1993.
- “Dynamic Patent Licensing,” *International Journal of Industrial Organization*, 349-368, September, 1992.
- “Innovation Adoption and Welfare Under Uncertainty,” *Journal of Industrial Economics*, 173-180, June, 1992.
- “Reputational Spillovers, Innovation, Licensing, and Entry,” *International Journal of Industrial Organization*, 193-212, June, 1992.
- “Debt in a Model of Tax Competition,” *Regional Science and Urban Economics*, 371-392, November, 1991 (with E. Toma).
- “Smuggling, Market Structure, and Camouflaging,” *Quarterly Journal of Economics*, 789-814, August, 1991 (with J. Thursby and M. Thursby).
- “Tariffs With Private Information and Reputation,” *Journal of International Economics*, 43-67,

- September, 1990 (with M. Thursby).
- “Information Capacity and Innovation Adoption,” *International Journal of Industrial Organization*, 335-350, November, 1988.
- “Information Cost and Innovation Adoption Policies,” *Management Science*, 230-239, February, 1988.
- “A Decision-Theoretic Approach to Innovation, Technology Transfer, and Trade,” *Review of Economic Studies*, 631-647, December, 1987 (with M. Thursby).
- “A Strategic Approach to the Product Life Cycle,” *Journal of International Economics*, 269-284, December, 1986 (with M. Thursby).
- “New Evidence on the Causes of Slave and Crew Mortality in the Atlantic Slave Trade,” *Journal of Economic History*, 57-77, March, 1986 (with R. Steckel).
- “Innovation Adoption and Diffusion When There Are Competing Innovations,” *Journal of Economic Theory*, 161-171, February, 1983.
- “A Conjectural Variation Approach to Strategic Tariff Equilibria,” *Journal of International Economics*, 145-161, February, 1983 (with M. Thursby).
- “Adoption and Diffusion of an Innovation of Uncertain Profitability,” *Journal of Economic Theory*, 182-193, October, 1982.
- “Mortality in the Atlantic Slave Trade: Statistical Evidence on Causality: Comment,” *Journal of Interdisciplinary History*, Autumn, 1982 (with R. Cohn).
- “The Determinants of Slave Mortality Rates on the Middle Passage,” *Explorations in Economic History*, 269-282, July, 1982 (with R. Cohn) .

OTHER PUBLICATIONS

- “University Invention, Entrepreneurship, and Start-Ups,” with C. Chukumba (June 2005), National Bureau of Economic Research Working Paper No. 11475.
- “Patent Licensing and the Research University” (aka “Academic Effects of Patentable Research”), with M. Thursby; National Bureau Economic Research WP No. 10758.
- Review of *Regulatory Takings: Law, Economics, and Politics*, William A. Fischel, in *Growth and Change* (Spring, 1996).
- Review of *Creative Marginality: Innovations at the Intersections of Social Sciences*, M. Dogan and R. Pahre, in *Growth and Change* (Winter, 1991).
- Review of *The Economics of Information and Uncertainty* (ed. J. J. McCall), in *Journal of Money, Credit, and Banking* (August, 1984).
- “The Impact of Uncertainty, Information, Learning, and Rivalry on the Rate of Adoption of Innovations,” in *Telecommunications Policy Annual*, 1981 (ed. by J. Schement).
- “Mortality Rates and the Slave Trader,” in *Essays in Economic and Business History* (1981, ed. by J. H. Soltow).

COMPLETED PAPERS

- “University-Industry Spillovers, Government Funding, and Industrial Consulting” (aka “In or Out: University Research and Faculty Consulting”), with J. Thursby and M. Thursby (December, 2007; revised November, 2009 and December, 2010), National Bureau of Economic Research Working Paper No. 15732.

- “University Startups and Entrepreneurship: New Data, New Results,” with M. Jones (December, 2010; revised June, 2011, and January, 2012).
- “How Effective Are Technology Transfer Officers in Achieving Their Objectives?” with D. Showalter (December, 2008; revised October, 2010, December, 2011, and April, 2012).
- “Facilitating Academic Entrepreneurship,” with H. Pham and M. Thursby (September, 2012).
- “A Stochastic Life-Cycle Model of Academic Research and Patent Licensing,” with H. Pham (June, 2010; revised December, 2011, and October, 2012).
- “University Inventions Licensed through Start-ups,” with D. Showalter (November, 2010; revised October, 2012 and December, 2013).
- “Commercializing University Inventions with Startups,” with D. Showalter (November, 2012).
- “Economic Policy for Biological Invasions and Potential Species Extinctions,” with C. Sadler (December, 2012; revised July, 2013).

WORK IN PROGRESS

A Theory of University Start-ups and Local Employment.
 Economic Policy for Invasive Species in Multijurisdictional Ecosystems (with C. Forsberg).

PRESENTATIONS (external in last 5 years)

- “Facilitating Academic Entrepreneurship,” at the Searle Conference on Innovation and Entrepreneurship, Northwestern University, June, 2013.
- “University Startups and Entrepreneurship: New Data, New Results,” at Searle Conference on Entrepreneurship and Innovation, Northwestern University, June, 2011.
- “A Theory of University Start-ups and Local Employment,” at the Small Business, Entrepreneurship, and Economic Recovery Conference, Federal Reserve Bank of Atlanta, October, 2010.
- “University Inventions Licensed through Start-ups,” at:
 HEC and OECD Workshop on Academic Entrepreneurship, Paris, September, 2010;
 Research Institute of Industrial Economics (IFN), Stockholm, June, 2010;
 IFN Conference on Ownership, Innovation and Competition Policy, Vaxholm, Sweden, June 1010;
 Roundtable for Engineering Entrepreneurship Research, November, 2009; and
 Conference of Technology Transfer Society, October, 2008.

PROFESSIONAL ACTIVITIES AND SERVICE

Member: American Economic Association, Econometric Society

Tenure, Promotion, and/or Appointment Reviews:

Georgetown University, Oakland University, Purdue University, University of Haifa, Duquesne University, Emory University, Old Dominion University (twice), Kent State University

Grant Evaluation Panels: National Science Foundation (January, 2005; June, 2005; and January, 2006)

Referee: *American Economic Review*, *Economic Inquiry*, *Economic Journal*, *Economic Theory*, *Environmental and Resource Economics*, *European Economic Review*, *European Journal*

of Operations Research, Games and Economic Behavior, International Economic Review, International Journal of Industrial Organization, International Tax and Public Finance, Journal of Development Economics, Journal of Economics and Management Strategy, Journal of Economic Behavior and Organization, Journal of Economic Education, Journal of Economic Theory, Journal of Economics, Journal of Environmental Economics and Management, Journal of Finance, Journal of International Economics, Journal of Political Economy, Journal of Public Economics, Journal of Technology Transfer, Management and Decision, Management Science, National Science Foundation, Quarterly Journal of Economics and Business, Quarterly Journal of Economics, RAND Journal of Economics, Research Policy, Review of Development Economics, Review of Economic Studies, Review of International Economics, Scandinavian Journal of Economics, Social Science Quarterly, Social Sciences Research Council of Canada, Southern Economic Journal, Swedish Journal of Economics.

Conferences and Sessions Organized:

Midwest Economic Theory Conference, University of Notre Dame, April-May, 2011.

“Environmental and Resource Economics,” Presidential Session at Southern Economic Association Meetings, San Antonio, November, 2003;

“University Innovation and Entrepreneurship,” European Association for Research in Industrial Economics Meetings, Helsinki School of Economics, August, 2003;

Scientific Program Committee, European Association for Research in Industrial Economics Meetings, Helsinki School of Economics, August, 2003;

Seng Symposium on Research in Economic Policy, University of Notre Dame, November, 2002.

“Environmental Economics,” Presidential Session at Southern Economic Association Meetings, New Orleans, November, 2002.

Midwest Economic Theory Conference, University of Notre Dame, October, 2002.

“Environmental Economics,” Presidential Session at Southern Economic Association Meetings, Tampa, November, 2001.

“R&D: Incentives and Effects,” Presidential Session at Southern Economic Association Meetings, Washington, D.C., November, 2000.

“Restructuring Electric Markets,” Presidential Session at Southern Economic Association Meetings, Washington, D.C., November, 2000.

Midwest Economic Theory Conference, University of Kentucky, May, 2000.

“Topics in Research, Development, and Innovation,” Presidential Session at Southern Economic Association Meetings, Baltimore, November, 1998.

“Topics in Environmental Economics,” Presidential Session at Southern Economic Association Meetings, Atlanta, November, 1997.

Midwest Mathematical Economics Conference, University of Kentucky, May, 1993.

Midwest Mathematical Economics Conference, Ohio State University, April, 1985.

DISSERTATIONS DIRECTED (at University of Notre Dame)

Completed: Pablo Hernandez (June, 2003); Celestine Chukumba (July, 2005).

DISSERTATIONS DIRECTED (at University of Kentucky)

Completed: Monica Greer (September 1999); Angela Ritzert (February 1999); Dean Showalter (September 1994); Alina Zapalska (June 1991); Paul Chambers (November 1989).

DISSERTATION COMMITTEES

8 completed at University of Notre Dame; 19 completed at University of Kentucky; and 7 completed at Ohio State University.

COURSES TAUGHT (University of Notre Dame)

Graduate: Microeconomic Theory I, Industrial Organization, Environmental Economics, Microeconomic Theory Research Seminar, GLOBES Economics Module
Undergraduate: Environmental Economics; Economics of Natural Resources; Intermediate Microeconomic Theory; Social Science University Seminar (Economics and the Environment); Economics Honors Program Research Seminar

COURSES TAUGHT (University of Kentucky)

Graduate: Quantitative Methods; Neoclassical Microeconomic Theory; General Equilibrium Theory; Game Theory; Industrial Organization; International Trade; Dynamic Optimization; Managerial Economics (MBA and Certificate in Medical Management).
Undergraduate: Intermediate Microeconomic Theory.

COURSES TAUGHT (Ohio State University)

Graduate: Neoclassical Microeconomic Theory; Quantitative Methods; Mathematical Economics; Game Theory.
Undergraduate: Industrial Organization; Principles of Microeconomics; Introductory Economics.

DEPARTMENTAL, COLLEGE, AND UNIVERSITY SERVICE (University of Notre Dame)

Accreditation Steering Committee, 2012 - 2014.
Chair, Criterion 5 Accreditation Committee, 2012 - 2014.
Provost's Advisory Committee (PAC): 2011 - 2013.
PAC Subcommittee on Conflict of Interest, 2011 - 12.
PAC Subcommittee on Intellectual Property and Commercialization of New Technology, 2011 - 2013.
Advisory Council for Sustainability Minor: 2011 - present.
Subcommittee on Enrollment and Business Economics Minor: 2011 - 2012.
Co-Chair, Committee to Develop International Economics Major: 2011 - 12.
Strategic Academic Planning Committee II: 2008 - 2009.
College Council: 2001 - 2005; 2006 - 2014.
Department Junior Search Committee: 2001 - 2005, 2006 - 2014.
Development and Administration of Bernoulli Awards: 2007 - present.
Chair, Bernoulli Awards Committee: Spring, 2008 - present.
Chair, Department Junior Search Committee: 2001 - 2003.
Chair, Department Ad Hoc Committee to Revise Economics Major, 2003 - 2005.

Microeconomic Theory Comprehensive Examination Committee: 2001 - 2003; 2008 - present.
Chair, Ad Hoc Committee to Develop Department Strategic Plan: 2001 - 2002.
Chair, Ad Hoc Committee to Develop Department CAP Document: 2001 - 2002.
Committee on Appointments and Promotions: 2000 - 2001.
Presentation to Arts and Letters Advisory Council: Fall, 2001; Fall, 2003; Fall, 2010.
Ford Family Program Search Committee: 2008 - 2009.
College Core Course Faculty Survey Committee: 2003.
University Social Science Core Curriculum Subcommittee, 2004 - 2006, 2007 - 2014.
College Salary Policy Committee: 2002 - 2004.
Seng Foundation Review Committees: November, 2001; March, 2002; November, 2002;
November, 2003.
ISLA Review Committees: June, 2001; November, 2002; March, 2002.
Tutor, First Year Studies Collegium: Spring, 2009.
Organizing Committee for Notre Dame Forum on Sustainable Energy: 2007 - 2008.
Forum Discussion Leader (Howard Hall): October, 2008.
Pizza, Pop, & Politics Panel Discussion: October, 2008.
Energy Policy, Environment, and Social Change Seminar; Center for Social Concerns:
October, 2007; October, 2008.
University Committee on Intellectual Property: 2003 - 2004.
University Environmental Advisory Group: 2003 - 2004.

DEPARTMENTAL, COLLEGE, AND UNIVERSITY SERVICE (University of Kentucky)

Director of Graduate Studies in Economics: 1991 - 1999.
Economics Department Graduate Studies Committee: 1989 - 2000.
Chair Advisory Committee: 1999 - 2000.
Gatton Chair in Microeconomics Recruiting Committee: 1998 - 2000.
Strategic Plan and RCIT II Ad Hoc Committee: 1998 - 1999.
Gatton Chair in Macroeconomics and Monetary Economics Recruiting Committee: 1997 - 1998.
CBER Advisory Committee: 1997 - 1998.
RGE Taskforce Response Ad Hoc Committee: 1997.
Exploratory Committee on MS in Economics: 1996 - 1997.
College Graduate Studies Committee: 1992 - 1993, 1995 - 1996, 1996 - 1997 (chair), 1997-1999.
Expanded College Graduate Studies Committee: 1997 - 1999.
College Committee to Review Department of Economics: 1997.
College Advisory Committee on Rolling Professorships: 1997.
Economics Research Innovations Committee: 1995 - 1996 (chair).
Economics Strategic Planning Committee: 1995 - 1996.
Ad Hoc Committee to developed two course graduate sequence and one undergraduate course in
Business Economics: Summer, 1996.
College Ph.D. in Business Administration Review Committee: 1995 - 1996 (chair).
College Merit Review Appeals Committee: 1994 - 1995 (chair).
Search Committee for Associate Dean for Academic Affairs: 1993.
University Senate Institutional Finances and Resource Allocation Committee: 1990 - 1993.

University Senate: 1989 - 1993.
Departmental Seminar Series Committee: 1989 - 1991.
Ad Hoc Committee to develop Graduate Field in Industrial Organization: 1990.
Junior Recruitment Committee: 1988 - 1989.
Microeconomic Theory Preliminary Examination Committee: Winter, Summer, 1988 - 1992;
Winter, 1993; Summer, 1995; Winter, Summer, 1996 - 1997; Summer, 1999.
Economic Theory Qualifying Examination Committee: Winter, 1990; Winter, Summer, 1993;
Summer, 1997.
Environmental and Resource Economics Qualifying Examination Committee: Summer,
1993 - 1995, 1998.
Industrial Organization Qualifying Examination Committee: Summer, 1990, 1992, 1994, 1996,
1998, 2000.
International Trade Qualifying Examination Committee: Summer, 1988; Winter, Summer, 1990;
Winter, 1991; Summer, 1991, 1998.
College Ad Hoc Committee for Mathematics 123, Spring, 1988 (to provide Mathematics
Department with input for their course review).
MBA Comprehensive Examination Committee: Fall, 1987; Fall, 1988.

DEPARTMENTAL, COLLEGE, AND UNIVERSITY SERVICE (Ohio State University)

Search Committee for Senior Microeconomic Theorist: Chair, 1982 - 1985.
Search Committee for Chair in Industrial Structure, Competition, and Regulation: 1983 - 1985.
Committee for Eminent Scholar in Industrial Structure, Competition, and Regulation:
1984 - 1985 (drafted proposal for a position in department; one of ten positions granted).
Developed new graduate mathematical economics core course: 1983 - 1985.
Developed exam to determine level of mathematical competence of incoming students in
doctoral program: 1985.
Ad Hoc Committee for Redesign of Graduate Microeconomic Theory Core Sequence:
1983 - 1985.
Microeconomic Qualifying Examination Committee: Winter, 1986; Summer, 1986;
Winter, 1987; Summer, 1987.
Industrial Organization General Examination Committee: Summer, 1981; Summer, 1983.
Mathematical Economics General Examination Committee: Summer, 1980; Summer, 1982;
Summer, 1984; Summer, 1986.
Accounting and Information Economics General Examination Committee (Accounting
Department): Fall, 1985; Fall, 1986; Fall, 1987.
Working Paper Coordinator: 1980 - 1987.