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I. CURRENT POSITION

Associate Professor
Robert E. McDonough School of Business, Georgetown University

II. EDUCATION

1987 B.S.E., Computer Engineering, College of Engineering, University of Michigan
1993 M.B.A., Amos Tuck School of Business, Dartmouth College
2001 Ph.D., Business Administration, Walter A. Haas School of Business, University of California, Berkeley

III. ACADEMIC EMPLOYMENT

08/00-08/07 Assistant Professor
Robert E. McDonough School of Business, Georgetown University
08/07-present Associate Professor
Robert E. McDonough School of Business, Georgetown University

IV. INDUSTRY EMPLOYMENT

07/87-08/91 Senior Software Engineer Dearborn, MI
Motorola Incorporated – Automotive and Industrial Electronics Group
05/92-08/92 Financial Associate Boca Raton, FL
International Business Machines (IBM) Corporation
09/93-08/95 Manager Boston, MA
Braxton Associates (Strategy consulting division of Deloitte & Touche Consulting Group LLP)

V. INTERNAL AND EXTERNAL AFFILIATIONS

09/05-present Special Government Employee White Oak, MD
Center for Drug Evaluation Research (CDER) and Center for Devices and Radiological Health (CDRH), U.S. Food and Drug Administration (FDA)
08/08-present Visiting Professor Barcelona, Spain
ESADE Business School
06/10-present Research Scientist Boston, MA
Center for Biomedical Innovation, Massachusetts Institute of Technology (MIT)
09/10-present Director Washington, DC
Georgetown Center for Business and Public Policy, Georgetown University

VI. PUBLICATIONS

Books

1. Innovation in Global Industries: U.S. Firms Competing in a New World (2008) (co-editor with D.C. Mowery). National Academy Press: Washington, DC.

Refereed Journal Articles

1. Macher, J.T., D.C. Mowery and D.A. Hodges (1998) "Reversal of fortune? The Recovery of the U.S. Semiconductor Industry." *California Management Review* **41**(1): 107-136.
2. Macher, J.T., D.C. Mowery and T.S. Simcoe (2002) "eBusiness and the Semiconductor Industry Value Chain: Implications for Vertical Specialization and Integrated Semiconductor Manufacturers." *Industry and Innovation* **9**(3): 155-181.
3. Macher, J.T. and D.C. Mowery (2003) "'Managing' Learning by Doing: An Empirical Study in Semiconductor Manufacturing." *Journal of Product Innovation Management* **20**(5): 391-410.
4. Henisz, W.J. and J.T. Macher (2004) "Firm- and Country-Level Tradeoffs and Contingencies in the Evaluation of Foreign Investment: The Semiconductor Industry, 1994-2002." *Organization Science* **15**(5): 537-554.
5. Macher, J.T. and B.D. Richman (2004) "Organizational Responses to Discontinuous Innovation: A Case Study Approach." *International Journal of Innovation Management* **8**(1): 87-114.
6. Macher, J.T. (2006) "Technological Development and the Boundaries of the Firm: A Knowledge-Based Examination in Semiconductor Manufacturing." *Management Science* **52**(6): 826-843.
7. Macher, J.T. and C.S. Boerner (2006) "Experience and Scale and Scope Economies: Tradeoffs and Performance in Development." *Strategic Management Journal* **27**(9): 845-865.
8. Macher, J.T., D.C. Mowery and A. Di Minin (2007) "The 'Non-Globalization' of Innovation in the Semiconductor Industry." *California Management Review* **50**(1): 217-242.
9. Burton, M., J.T. Macher and J.W. Mayo (2007) "Understanding Participation in Social Programs: Why Don't Households Pick up the Lifeline?" *B.E. Journal of Economic Analysis and Policy* **7**(1) (Topics): Article 1.
10. Macher, J.T. and B.D. Richman (2008) "Transaction Cost Economics: An Assessment of Empirical Research in the Social Sciences." *Business and Politics* **10**(1): Article 1.
11. Macher, J.T. and D.C. Mowery (2009) "Measuring Dynamic Capabilities: Practices and Performance in Semiconductor Manufacturing." *British Journal of Management* **20**: 41-62.
12. Macher, J.T. and J.M. Mayo (2010) "Making a Market out of a Mole Hill? Geographic Market Definition in Aspen Skiing." *Journal of Competition Law and Economics* **6**(4): 911-926.
13. Macher, J.T., J.W. Mayo and M. Schiffer (2011) "The Influence of Firms on Government," *B.E. Journal of Economic Analysis and Policy* **11**(1) (Contributions): Article 1.
14. Weber, L., Mayer, K.J. and J.T. Macher (2011) "An Analysis of Extendibility and Early Termination Provisions: The Importance of Framing Duration Safeguards." *Academy of Management Journal* **54**(1): 182-202.
15. Macher, J.T., J.M. Mayo and J.A. Nickerson (2011) "Regulator Heterogeneity and Endogenous Efforts to Close the Information Asymmetry Gap." *Journal of Law and Economics* **54**(1): 25-54.
16. Macher, J.T. and C.S. Boerner (2011) "Technological Development at the Boundaries of the Firm: A Knowledge-Based Examination in Drug Development." *Strategic Management Journal*, forthcoming.

Edited Book Chapters

1. Macher, J.T., D.C. Mowery and D.A. Hodges (1999) "Semiconductors." In D.C. Mowery (ed.), U.S. Industry in 2000: Studies in Competitive Performance. National Academy Press: Washington, DC: 245-286.
2. Boerner, C.S., J.T. Macher, and D.J. Teece (2001) "Organizational Learning in Economics." In M. Dierkes, A. Berthoin-Antal, J. Child and I. Nonaka (eds.), Handbook of Organizational Learning and Knowledge. Oxford University Press: New York, NY: 89-117.
3. Macher, J.T. and D.C. Mowery (2004) "Vertical Specialization and Industry Structure in High Technology Industries." In J.A.C. Baum and A.M. McGahan (eds.), Business Strategy over the Industry Lifecycle – Advances in Strategic Management. **21**: 317-356.
4. Macher, J.T., D.C. Mowery and A. Di Minin (2008) "Semiconductors." In J.T. Macher and D.C. Mowery (eds.), Innovation in Global Industries: U.S. Firms Competing in a New World. National Academy Press: Washington, DC: 101-140.
5. Leiblein, M.J. and J.T. Macher (2009) "The Problem Solving Perspective: A Strategic Approach to Understanding Environment and Organization," In B.S. Silverman and J.A. Nickerson (eds.), The Economic Institutions of Strategy – Advances in Strategic Management. **26**: 97-120.

Other Publications

1. Macher, J.T. (2000) Review of Capital For Our Time: The Economic, Legal, and Management Challenges of Intellectual Capital. N. Imperato (ed.). In *Journal of Economic Literature* **38**(3): 678-680.
2. Macher, J.T. and C.S. Boerner (2005) "Development and the Boundaries of the Firm: A Knowledge-Based Examination in Drug Development." *Best Paper Proceedings 2005, Academy of Management Annual Meeting*.
3. Macher, J.T. (2006) Comments on "Offshoring in the Semiconductor Industry: A Historical Perspective," by C. Brown and G. Linden in S.M. Collins and L. Brainard (eds.), Brookings Trade Forum 2005: Offshoring White-Collar Work: 323-328.

VII. WORKING PAPERS – UNDER SUBMISSION

1. Macher, J.T. and J.W. Mayo (2011) "The World of Regulatory Influence." (under second review, *Journal of Regulatory Economics*).
2. Macher, J.T. and J.W. Mayo (2011) "Is Bigger Better? Firm Size and Governmental Influence." (under review, *Strategic Management Journal*).

VIII. GRANTS AND FELLOWSHIPS

1. SEMI Grant for "eBusiness in the Semiconductor and Semiconductor Equipment Industries," \$25,000. Joint with D.C. Mowery. (2001).
2. International SEMATECH Grant for "Economics of the 21st Century Semiconductor Industry," \$200,000. Joint with D.C. Mowery. (2000-2002).
3. Center for Business and Public Policy, McDonough School of Business, Georgetown University Grant for "An Investigation Into Pharmaceutical Manufacturing Strategies And Their Relationship To FDA Oversight And Enforcement Actions," \$30,000. (2002-2004).
4. Alfred P. Sloan Foundation Grant for "Regulatory Economics of Global Biopharmaceutical Manufacturing," \$250,000. Joint with MIT Center for Biomedical Innovation. (2010-Present).

IX. TEACHING EXPERIENCE

Undergraduate Courses

McDonough School of Business, Georgetown University
MGMT 283: Strategic Management – Spring 2001-2003 (6 sections in total)
Average Rating on Overall Quality of Instructor: 4.83 out of 5.0 (school mean 4.34)

Evening and Full-Time MBA Courses

McDonough School of Business, Georgetown University
STRT 550: Microeconomics – Fall 2000-2007, 2010; (31 sections in total)
Average Rating on Overall Quality of Instructor: 4.78 out of 5.0 (school mean 4.20)

McDonough School of Business, Georgetown University
STRT 570: Strategic Management – Fall 2008-Spring 2010 (6 sections in total)
Average Rating on Overall Quality of Instructor: 4.71 out of 5.0 (school mean 4.20)

Executive MBA Courses

McDonough School of Business, Georgetown University
EMBA 839: Technology and Knowledge Management – Summer 2001-2009 (9 sections in total)
Average Rating on Overall Quality of Instructor: 4.65 out of 5.0 (school mean 4.18)

McDonough School of Business, Georgetown University
EMBA 812: Microeconomics – Summer 2002, 2004, 2010 (3 sections in total)
Average Rating on Overall Quality of Instructor: 4.82 out of 5.0 (school mean 4.21)

McDonough School of Business, Georgetown University
GEMBA 812: Industry Economics – Fall 2008-2010 (3 sections in total)
Average Rating on Overall Quality of Instructor: 4.82 out of 5.0 (school mean 4.20)

X. ACADEMIC HONORS

- Eta Kappa Nu Electrical Engineering Honor Society (1986)
- Tau Beta Pi Engineering Honor Society (1987)
- B.S.E. with Honors (1987)
- Edward Tuck Scholar (1992 and 1993)
- M.B.A. with High Distinction (1993)
- Henry J. Hayase Citizenship Award (2000)

XI. RESEARCH AND TEACHING AWARDS

- Faculty Speaker, International Executive MBA Program Commencement, McDonough School Business, Georgetown University (2003)
- Dean's Distinguished Faculty Research Award, McDonough School of Business, Georgetown University (2006)
- Professor of the Module, McDonough School of Business, Georgetown University (Spring 2010)

XII. PROFESSIONAL ACTIVITIES

1. Editorial Board, *International Journal of Strategic Change Management*; *Strategic Management Journal*.
2. Regular reviewer, *Academy of Management Journal*; *Management Science*; *Organization Science*; *Strategic Management Journal*.

3. Occasional reviewer, *California Management Review*; *Industrial and Corporate Change*; *Journal of Industrial Economics*; *Journal of International Business Studies*; *Journal of Law, Economics and Organization*; *Journal of Product Innovation Management*.
4. Organizing Committee, ISNIE Annual Conference (2009)
5. Member, Academy of Management; International Society for New Institutional Economics; Strategic Management Society