

CURRICULUM VITAE

1. Contact Information:

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Fields of Concentration:

Intellectual Property Rights, Research and Development (R&D), and International Economics

Citizenship:

U.S., Canada

2. Education:

Ph.D. Economics	Yale University, USA	1991
M.Phil. Economics	Oxford University, U.K.	1985
B.A. Economics/Statistics	University of Toronto, Canada	1983

3. Other Affiliations:

Sept. 2008 - present Special Sworn Employee, Bureau of Economic Analysis
U.S. Department of Commerce, Washington, D.C.

Sept. - Dec. 1997 Visiting Scholar, Institute for Industrial Relations,
University of California, Berkeley

4. Research:

A. Journal Articles:

“There will be Exports and Licensing: The Effects of Patent Rights on Firm Sales,” *Journal of International Trade and Economic Development*, forthcoming [Co-author: Kristie Briggs]”

“International Patenting, Technology Gaps, and Patent Rights,” *Review of Economics and Institutions*, Vol. 4, No. 1, Winter 2013, Article 3.

“On a Dynamic Panel Analysis of RD and Mergers” [Co-author: Ralph Sonenshine] *International Journal of Applied Research in Business Administration and Economics*, Vol. 1, Issue 3, July 2012, pp. 21 - 36.

“North-South Models of Intellectual Property Rights: An Empirical Critique,” *Review of World Economics*, Vol. 148, No. 1, April 2012, pp. 151 - 180.

“Impact of Horizontal Mergers on Research and Development: Evidence from U.S. Merger Challenges,” *Journal of Industry, Competition, and Trade*, Vol. 12, 2012, pp. 143 - 167. [Co-author: Ralph Sonenshine]

“Appropriate Intellectual Property Protection and Economic Growth in Countries at Different Levels of Development,” *Research Policy*, Vol. 41, 2012, pp. 350 - 375 [Co-authors: Keun Lee, Yee K. Kim, and Kineung Choo]

“The Copyright Dilemma: Copyright Systems, Innovation, and Economic Development,” *Journal of International Affairs*, Fall/Winter 2010, Vol. 64, No. 1, pp. 53 - 68.

“On Patenting Costs,” *The WIPO Journal: Analysis of Intellectual Property Issues*, Vol. 2, Issue 1, 2010, pp. 38 - 48.

“International Patent Protection,” *Research Policy*, Vol. 37, Issue 4, 2008, pp. 761-766.

“Patent Rights and Innovative Activity: Evidence from Firm and National Level Data,” *Journal of International Business Studies*, Vol. 38, No. 6, 2007, pp. 878-900. [Co-author Brent Allred].

“Influence of Patent Rights on Firm Innovation Investment in Ten Manufacturing Industries,” *Journal of International Management*, Vol. 13, No. 2, 2007, pp. 91-109 [Co-author Brent Allred].

“International Licensing and the Strengthening of Intellectual Property Rights in Developing Countries,” *OECD Economic Studies*, Vol. 40, 2005/1, pp. 7-48. [Co-author: Doug Lippoldt]

“The Impact of Trade-Related Intellectual Property Rights on Trade and Foreign Direct Investment in Developing Countries,” *OECD Papers: Special Issue on Trade Policy*, Vol. 3, No. 11/294, 2003 (40 pages). [Co-author: Douglas Lippoldt]

“Patent Rights and Economic Freedom: Friend or Foe,” *Journal of Private Enterprise*, Vol. 18, No. 1, Fall 2002, pp. 84-121. Reprinted in Joshua Hall and Robert Lawson (eds.) *Economic Freedom: Causes and Consequences*, Nova Publishers, 2011.

“Globalization, Patent Reform, and Patent Professional Services,” *Journal of the Patent and Trademark Office Society*, Vol. 83, No. 5, May 2001, pp. 303-340.

“Measuring Global Patent Protection,” in *Fraser Forum*, Fraser Institute, Vancouver, B.C., March 1999, pp. 4-7.

“A Theoretical Model of Government Research and Growth,” *Journal of Economic Behavior and Organization*, Vol. 34, No 1, March 1998, pp. 51-67.

“Determinants of Patent Rights: A Cross-National Study,” *Research Policy*, Vol. 26, No. 3, October 1997, pp. 283-301. [Co-author: Juan Carlos Ginarte]

“A Permanent Income Model of Public Consumption,” *Journal of Macroeconomics*, Vol. 19, No. 4, Fall 1997, pp. 753-769.

“How Stratified is the World? Openness and Development,” *Virginia Economic Journal*, September 1997, pp. 59-66. [Co-author: David A. Brat]

“Intellectual Property Rights and Economic Growth,” *Contemporary Economic Policy*, Vol. 15, No. 3, July 1997, pp. 51-61. [Co-author: Juan Carlos Ginarte]

“A Note on Innovation and Patents: Intertemporal Imitation-Risk Smoothing,” *Economics Letters*, Vol. 54, No. 2, February 1997, pp. 185-189.

“Cross-Country R&D and Growth: Variations on a Theme of Mankiw-Romer-Weil,” *Eastern Economic Journal*, Vol. 22, No. 3, Summer 1996, pp. 345 - 354. [Co-author: David Brat]

“Intellectual Property Rights in a North-South Context,” *Science Communications*, Vol. 17, No. 3, 1996, pp. 379-387. [Co-author: Juan Carlos Ginarte]

“International Spillovers of R&D and OECD Economic Growth,” *Economic Inquiry*, Vol. 33, No. 4, 1995, pp. 571-591.

“A Global Kuznets Curve?” *Kyklos*, Vol. 48, 1995, pp. 105-131. [Co-author: David Brat]

“Adoption, Diffusion, and Public R&D,” *Journal of Economics and Finance*, Vol. 18, No. 1, 1994, pp. 101-123.

“Public Capital, Taxation, and Private Sector Productivity,” *Journal of Applied Economics and Policy (formerly the Kentucky Journal of Economics and Business)*, Vol. 12, 1993, pp. 1-13.

“On a Model of Endogenous Government Behavior,” *National Social Sciences Perspectives Journal, Conference Proceedings*, Vol. 3, No. 2, 1993, pp. 230-240.

“Speculative Attacks in Argentina: A Tobit Analysis of the Tablita Period 1979-1981,” *Southwestern Journal of Economic Abstracts*, Vol. 13, No. 1, 1992, pp. 3-30.

B. Book Chapters:

“Intellectual Property Rights and Economic Policy: 2000 - present” in Robert Wright and Tom Zeiler (eds.), *Guide to U.S. Economic Policy*, Chapter 25, New York: DWJ Books, forthcoming.

“Technology Transfer and the Economic Implications of the Strengthening of Intellectual Property Rights in Developing Countries,” in Bronwyn Hall, Sanghoon Ahn, and Keun Lee (eds.) *Intellectual Property Rights for Economic Development* Edward Elgar Publishers, forthcoming. [Co-author: Douglas Lippoldt]

“Technology Trade and NAFTA” in *Progress in Economics Research*, Albert Tavidze (ed.), Nova Science Publishers, Vol 25, Chapter 2.

“Intellectual Property Rights and Foreign Direct Investment: Lessons for Central America,” in Rashmi Shankar (ed.), *Getting the Most Out of Central America's Free Trade Agreements*, Washington, D.C.: World Bank, 2011, pp. 275 – 308.

“Open Development: Is the ‘Open Source’ Analogy Relevant to Biotechnology,” in David Castle (ed.) *The Role of Intellectual Property Rights in Biotechnology Innovation*, Edward Elgar Publishers, 2010, pp. 225 - 251. [Coauthor: Alan G. Isaac]

“Intellectual Property Rights and International Innovation,” in Keith Maskus (ed.) *Frontiers of Economics and Globalization*, Vol. 1, Handbook Series, Elsevier Science, 2008, pp. 289 - 327.

“Innovation and Economic Dynamics,” in Wei-Bin Zhang (ed.) *Mathematical Models in Economics: Encyclopedia of Life Support Sciences*, UNESCO, United Nations, 2007, Chapter 6 (42 pages).

“From Theory to Time-Series,” in Peter Hingley and Marc Nicolas (eds.) *Forecasting Innovations: Methods for Predicting Numbers of Patent Filings*, Springer-Verlag, 2006, pp. 27-39. [Co-author: Peter Hingley]

“International Patenting at the European Patent Office: Aggregate, Sectoral, and Family Filings,” in Peter Hingley and Marc Nicolas (eds.), *Forecasting Innovations: Methods for Predicting Numbers of Patent Filings*, Springer-Verlag, 2006, pp. 125-158.

“Do Intellectual Property Rights Stimulate R&D and Productivity Growth? Evidence from Cross-National and Manufacturing Industry Data,” in Jon Putnam (ed.), *Intellectual Property Rights and Innovation in the Knowledge-Based Economy*, Ottawa, Industry Canada, 2005, pp. 9-1 - 9-51.

“On Intellectual Property Rights: Patents vs. Free and Open Development,” in Enrico Colombatto (ed.) *The Elgar Companion to Property Rights*, Edward Elgar Publishers, 2004, pp. 383 - 413. [Co-author: Alan Isaac]

“Property Rights in the New Economy,” Chapter 36, in Derek C. Jones (ed.) *New Economy Handbook*, New York, Academic Press, August 2003, pp. 841-863.

“Index of Patent Rights, 2000 Update,” Chapt. 2, in James Gwartney and Robert Lawson (eds.) *Economic Freedom of the World Annual Report 2002*, Fraser Institute, Vancouver, B.C., pp. 33-42. [Co-author: Smita Wagh]

“Intellectual Property and Patent Regimes,” Chapt. 4, in James Gwartney and Robert Lawson (eds.) *Economic Freedom of the World Annual Report 2001*, Fraser Institute, Vancouver, B.C., pp. 101-118.

“Impact of the International Patent System on Productivity and Technology Diffusion,” in Owen Lippert (ed.), *Competitive Strategies for Intellectual Property Protection*, Fraser Institute, Vancouver, B.C., 1999, pp. 47-72.

“Reducing Global Patenting Costs,” in the *Fourth International Symposium on Patent Cost Containment*, July 1999 (American Intellectual Property Law Association, Washington, D.C.).

Key Implications of the Global Economic Environment for PCT Filings: A Survey of the Issues, World Intellectual Property Organization (WIPO), Geneva, Switzerland, 1999 (www.wipo.int/sme/) [Coauthors: Peter Grindley and Murray Smith]

“Patent Systems in APEC: Role in Nontariff Trade Barriers and Strategic Trade Policy,” in U.S. International Trade Commission (ITC), *Economic Implications of Liberalizing APEC Tariff and Nontariff Barriers to Trade*, Publication 3101, Government Printing Office, April 1998, pp. 6:1-6:25.

“Issues in International Patenting,” background paper for *Intellectual Property Rights: Patents and Innovation in the International Context*, Working Group on Innovation and Technology Policy, Publication DSTI/STP/TIP(96)13/REV1, Organization for Economic Co-operation and Development (OECD), June 1997.

C. Works in Progress:

“Demographic Trends, EU Enlargement, and Economic Growth” [Co-author: Zamira Simkins]

“Does the WTO Matter? A Non-parametric view”

“Europe Beyond Aid: Evaluating Europe’s Contribution to the Transfer of Technology and Knowledge to Developing Nations” [Co-authors: Owen Barder and Liza Reynolds]

“Indexes of International Trademark and Copyright Protections” [Co-author: Tad Reynolds]

“Intellectual Property Protection and the Industrial Composition of Multinational Activity” [Co-authors: Olena Ivus and Kamal Saggi]

“Patent Family Statistics” [Co-author: Peter Hingley]

“Patent Valuation using International Patent Family Sizes” [Co-author: Francois Kabore]

“R&D, Spillovers, and Intellectual Property Rights”

“When an Importer's Protection of IPR Interacts with an Exporter's level of Technology: Comparing the Impacts on the Exports of the North and South” [Co-authors: Keun Lee and Wonkyu Shin]

D. Other:

A Student's Quick Start Guide to Aplia, (2005) Thomson Publishers Inc. [Co-author: Zamira Simkins]

Study Guide to Samuelson and Nordhaus (2009), Principles of Economics 19th edition, McGraw-Hill.

5. Invited Speeches, Presentations, and Panels

“Intellectual Property Rights and International Technology Transfer,” Lecture at Center for Intellectual Property Research, Jiangsu University, China (November 2013)

“Patent reform in global and regional free trade agreements,” Guest speaker, Development Seminar, *Georgetown University, School of Foreign Service* (March 2013)

“Perspectives on Intellectual Property Rights and Economic Development” Conference on Intellectual Property, Trade and Development, co-hosted by *Washington College of Law, American University* and *Public Citizen*, Washington, D.C., Presenter (October 2012)

“Can IP Reform Promote Economic Well-Being?” *Trans-Atlantic Consumer Dialogue Meetings*, U.S. Department of State, Washington, D.C., Plenary Session, Panelist (June 2012)

“TRIPS-Plus Provisions in Free Trade Agreements,” *Trans-Pacific Partnership Meetings*, Dallas, TX, session organized by *Public Citizen*, Invited Speaker (May 2012)

“U.S.-European Union Convergence in Patent Law”, *Transatlantic Summit Meetings*, Washington, D.C., session organized by *Science Business* and the *Federal Circuit Bar Association*, Panelist (May 2012)

“International Technology Transfer and Innovation,” Conference on the Knowledge Economy and the Role of Intellectual Property Rights, co- sponsored by the *Ministry of Higher Education and Scientific Research*, Cairo, Egypt and *World Intellectual Property Organization*, Invited Speaker (November 2011)

“Perspectives on the America Inventors Act (AIA),” *Brookings Institution*, Washington, D.C., Panelist (September 2011)

“Exports and Licensing: Impact of Patent Rights,” *Science and Technology Policy Institute*, Seoul, Korea, Seminar Presenter (August 2011)

“Appropriate Intellectual Property Rights for Economic Development,” Annual Economics Conference Presentation, *International Economic Association*, Beijing, China (July 2011)

“Intellectual Property Rights and China,” *U.S. International Trade Commission*, Washington, D.C., Seminar Presenter (November 2010)

“International Offshoring of R&D,” *American Society for Competitiveness*, Vienna, Virginia, Panelist (October 2010)

“Korean Model of Development,” *Korean Economic Association*, jointly with the *Korean Association for Political Science*, Washington, D.C., Panelist (June 2010)

“North-South Innovation,” *Inonu University*, Malatya, Turkey, Invited Speaker (April 2010)

“Technology Transfer and Intellectual Property Rights,” Intellectual Property Rights and Economic Development, *Korea Development Institute*, Seoul, Korea, Conference Presentation (February 2010)

Conference on Entrepreneurship, National Innovation Strategy, *Organization for Economic Cooperation and Development (OECD)*, Paris, France, Presenter and Panelist (November 2007)

U.S. Patent and Trademark Office (USPTO) Trilateral Meeting, Working Group on Patent Statistics, Washington, D.C., Panelist (August 2007)

Global Intellectual Property Reform, *Center for Strategic and International Studies (CSIS)*, Washington, D.C., Panelist (September 2006)

“Open Source and Biotechnology,” *Center for Intellectual Property Policy (CIPP) Workshop*, Florence, Italy, Presenter (October 2005)

“International Technology Transfer and Intellectual Property Rights,” *Association of University Technology Managers (AUTM)* Annual Meeting, Annapolis, MD, Plenary Session, Invited Speaker (June 2005)

“International Patenting Behavior: Aggregate and Sectoral Patterns,” *European Patent Office*, Munich Germany, Seminar Presenter, (December 2004)

“China’s Recent Intellectual Property Reforms,” *Atlas Economic Research Foundation*, New Orleans, LA, Invited Speaker (April 2003)

“Recent Developments in the World Trade Organization’s Trade Related Intellectual Property Rights Agreement,” *Center for Globalization*, Yale University, Panelist (April 2003)

“Trade, Foreign Direct Investment, and Intellectual Property Rights,” *Economic Research Service, U.S. Department of Agriculture*, Seminar Presenter (October 2002)

“R&D, Spillovers, and Intellectual Property Rights” *European Association for Industrial Economists (EARIE)* Conference, Madrid, Spain, Presenter (September 2002)

“Institutions and Incentives for R&D: Implications for Latin America” *Latin American Econometrics Society (LAMES)*, Sao Paulo, Brazil, Presenter (July 2002)

“Global Intellectual Property Rights and Impacts,” *World Bank Annual Bank Conference on Development Economics*, Washington, D.C., Presenter (April 2002)

“Intellectual Property versus Fiscal Incentives for R&D” *World Bank*, Latin America and Caribbean Group (LAC), Washington D.C., Seminar Presentation (November 2001)

“R&D, Spillovers, and Intellectual Property Rights,” *Economic Freedom of the World Network (EFW)* Conference, San Francisco, CA (October 2001).

“R&D, Spillovers, and Intellectual Property Rights” *World Bank*, Trade and Development Group, Washington, D.C., Seminar Presentation (October 2001)

“Intellectual Property Rights, R&D, and Productivity Growth” Conference co-sponsored by *Industry Canada* and the *University of Toronto Law School*, Canada, Presenter (May 2001)

“Intellectual Property Rights and the Market Economy,” Annual Conference of the *Association of Private Enterprise Economists (APEE)*, Washington, D.C., Presenter (April 2001)

“TRIPS (Trade-Related Intellectual Property Rights Agreement and Developing Countries),” sponsored by the *International Intellectual Property Institute (IIPI)*, Washington, D.C., Presenter (February 2001)

“Debate on the Human Genome Project and Patenting,” sponsored by the *Global Intellectual Property Project (GLIPP)*, School of International Service (SIS), American University, Panelist (February 2001)

“New Economy and Internet Patenting,” *Chartered Institute of Patent Agents*, London, U.K., Invited Speaker (November 2000)

“Globalization and Patent Agent Services,” *International Federation of Intellectual Property Attorneys Meeting*, Vancouver, Canada, Invited Speaker (May 2000)

“International Intellectual Property Rights and Technology Gaps,” *Office of Harmonization for the Internal Market (OHIM)* Conference, Alicante, Spain, Presenter (March 2000)

“International Patenting and Technology Gaps,” *World Bank*, Economics and Trade Research Group, Washington, D.C., Seminar Presenter (November 1999)

“Are Patent Policies Trade-Related?” *Conference on the Free Trade Areas of the Americas*, organized by the *Fraser Institute*, Toronto, Canada, Invited Speaker (November 1999)

“Perspectives on Patent Cost Reduction,” Symposium on International Patenting Cost, co-hosted by the *American Intellectual Property Law Association* and *International Federation of Intellectual Property Attorneys*, Hague, Netherlands, Keynote Speaker (July 1999)

“Intellectual Property Rights and Technology Diffusion,” *Conference on Law and Markets: Part I*, co-hosted by the *Instituto Libertad y Desarrollo* and the *Fraser Institute* in Santiago, Chile, Presenter (April 1999)

“Patent Rights and Productivity in Latin America,” *Conference on Law and Markets: Part II*, co-hosted by the *Fundacion Republica* and the *Fraser Institute* in Buenos Aires, Argentina, Presenter (April 1999)

6. Consulting and Advisory Work

American Intellectual Property Law Association (AIPLA), 1999

- Project on policies to reduce international patenting costs.

Center for Global Development (CGD), 2012, 2013

- Developing the Technology Component of the CGD’s Commitment to Development Index.

European Patent Office (EPO), 2004 - 2006, 2012 - 2013

- Project on developing forecasting models of patent filings; Advisory capacity.

Industry Canada 2001, 2009

- Project on intellectual property rights and manufacturing growth; Project on impacts of Canadian copyright reform.

International Federation of Intellectual Property Attorneys (FICPI), 2000

- Project on the effects of Patent Harmonization on Legal Professional Fees and Entry.

Organization for Economic Cooperation and Development (OECD) 1997, 2003, and 2007

- Research on innovation and intellectual property rights (IPRs); and on the effects of global IPR reforms on trade and on technology diffusion.

U.S. Department of Energy (U.S. DOE), 1992-3

- Project on the role of government research labs and commercialization of publicly funded innovations.

World Bank 1999, 2002, 2010

- Research on technological change and income inequality, on R&D and human capital formation in Latin America; and role of IPR in the CAFTA-DR.

World Intellectual Property Office (WIPO), 1998

- Project on the PCT (Patent Cooperation Treaty) system and impact of financial crises.

7. Refereeing

Agricultural Economics

American Economic Review

Bulletin of Economic Research

Canadian Journal of Economics

Contemporary Economic Policy

Eastern Economic Journal

Economic Inquiry

Empirical Economics

Industrial and Corporate Change

International Economic Journal

International Journal of Management Review

Journal of Applied Economics

Journal of Development Economics

Journal of Economics

Journal of Economic and Management Strategy

Journal of Economic Behavior and Organization

Journal of Economic Governance

Journal of International Business Studies

Journal of International Economics

Journal of International Trade and Development

Journal of Macroeconomics

Journal of Productivity Analysis

Oxford Bulletin of Economics and Statistics

Oxford Economic Papers
 Quarterly Review of Economics and Finance
 Research Policy
 Review of Industrial Organization
 Review of World Economics
 Social Science Quarterly
 Southern Economic Journal
 Technovation
 Thunderbird Business Review
 World Development
 World Patent Information.

8. Teaching

Graduate Microeconomics (MA and PhD Levels)
 Graduate Macroeconomics (MA and PhD Levels)
 Intermediate Microeconomics (BA Level)
 Intermediate Macroeconomics (BA Level)
 Principles Microeconomics (BA Level)
 Principles Macroeconomics (BA Level)
 Industrial Organization (BA Level)
 International Trade and Finance (BA, MA, and PhD Levels)
 Econometrics (BA and MA Levels)
 Economics Internship Advising (BA and MA Levels)

9. Honors and Awards

Research Grant to study Copyright Flexibilities, Google Inc., 2013 - 2014
 Chair, Killam Foundation, Adjudication Committee 2007 - 2010
 Center for North American Studies, American University, 2007
 University Curriculum Development Grant 2002
 University Research Award, American University, 1994, 1995, 1997, and 2004
 Distinguished Paper, Southwestern Social Science Association, 1992
 Centre of Excellence Research Award, American University, 1992
 Raymond P. Powell Teaching Prize, Yale University, 1990

10. Professional Memberships

- American Economic Association (since 1992)
- Association of University Technology Managers (2005-6)
- Global Intellectual Property Project, Washington D.C. (1994 - 1999)
- Southern Economic Association (since 2005)
- Western Economic Association (since 1993)

11. References:

To be furnished upon request