Dr. Kristina M. L. Acri, née Lybecker

John L. Knight Chair of Economics Associate Professor of Economics Department of Economics & Business The Colorado College 14 E. Cache la Poudre Street Colorado Springs, CO 80903 tel: 719-389-6445 fax: 719-389-6927 E-mail: KAcri@coloradocollege.edu

EDUCATION

DOCTORAL STUDIES

University of California at Berkeley, Ph.D. in Economics, September 2000
Dissertation Title: "Counterfeit Pharmaceuticals: Product Piracy and the Transition to Stronger Intellectual Property Rights in Developing Countries"
Dissertation Committee: Dr. Joseph Farrell (thesis advisor), Dr. Brian Wright, Dr. Pranab Bardhan Fields of Concentration: Industrial Organization and International Economics

UNDERGRADUATE STUDIES

Macalester College, St. Paul, Minnesota, B.A. in Economics and Latin American Studies, May 1991 Universidad Iberoamericana, Mexico City, D.F., Mexico, Junior Year Abroad, 1989-1990

PROFESSIONAL EXPERIENCE

CURRENT POSITION

Associate Professor Colorado College, Department of Economics & Business, Summer 2012 to present

PAST POSITIONS

Department Chair Colorado College, Department of Economics & Business, Summer 2017 – Summer 2020

Assistant Professor

Colorado College, Department of Economics & Business, Summer 2007 - Summer 2012

Assistant Professor

Lake Forest College, Department of Economics & Business, Fall 2006 to Summer 2007

Assistant Professor

Drexel University, Department of Economics and International Business, Fall 2000 to Summer 2006.

Academic Researcher AstraZeneca Pharmaceuticals, LP: July – August 2004

Teaching Assistant Coordinator

U.C. Berkeley, Department of Economics: August 1999 to May 2000.

Head Teaching Assistant

U.C. Berkeley, Department of Economics, Principles of Economics.

Teaching Assistant Trainer

U.C. Berkeley, Department of Economics.

Outreach Tutor

U.C. Berkeley, Department of Economics.

Graduate Student Instructor

U.C. Berkeley, Department of Economics. Principles of Economics, Industrial Organization & Public Policy, Microeconomic Analysis, Economic Theory – Microeconomics

Research Assistant

The Walt Disney Company, Spring 1995 Research with Professors Oliver Williamson and Glenn Woroch on the Federal Communication Commission's review of the Prime Time Access Rule (PTAR). [FCC 95-314]

Research Assistant

Department of Economics, U.C. Berkeley, Summer 1992 Research with Professor Paul Ruud on the effects of taxation on the decision to work.

HONORS AND AWARDS

John L. Knight Chair of Economics Colorado College, 2020-2023

National Science Foundation Proposal Reviewer NSF Proposal on Disrupting Operations of Illicit Supply Networks (D-ISN) December 2020

Research and Development Block Award Dean of the College, 2020-2021 Colorado College

Invited Speaker

Hoover Institution at Stanford University, "Distorted Drug Patents," (joint work with Erika Lietzan), First annual Technology, Innovation, and Intellectual Property program of the Classical Liberal Institute (CLI-TIIP), Palo Alto, California, January 24, 2020.

• Our paper was one of only three manuscripts featured at the symposium.

Awarded the Michael Szenberg Prize

Prize awarded by the editorial board of The American Economist for the best article published by the journal in 2018, 1 October 2018.

"Do Restrictions Beget Responsibility? The Case of U.S. Abortion Legislation"

- Joint work with Amanda J. Felkey, Lake Forest College
- The American Economist, vol.63, no.1, 2018, pp.59-70.
- <u>HTTP://journals.sagepub.com/doi/full/10.1177/0569434517692972</u>

Invited Participant

"International Think Tank Policy Dialogue on Health, Trade and Innovation", Geneva Network, New York, NY, September 11-12, 2017.

Research and Development Block Award Dean of the College, 2018-2019 Colorado College

Chapman Fellowship Foundation Grant

Dean of the College, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 Colorado College

Policy Advisor

Heartland Institute, 2006 – 2018 http://www.heartland.org/

Invited "Friend of the Blog"

The Global Eye, Link Campus University of Rome, 2018- present <u>https://globaleye.online/about-us-editor/</u>

Invited Speaker

"Intellectual Property and Global Prosperity", 4th Annual Fall Conference, Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, Arlington, VA, October 6-7, 2016. Available at: http://cpip.gmu.edu/conferences/2016-fall-conference/

Fellowship Award

Thomas Edison Innovation Fellowship for 2016-2017 Center for the Protection of Intellectual Property (CPIP) at George Mason University School of Law

Award

Sid Winter Award, May 2016 An annual faculty award for a member of the Colorado College Econ/Business staff deemed most worthy by his/her peers in that department.

Invited Expert

Organization of Economic Cooperation and Development (OECD), 3rd Meeting of the Task Force on Charting Illicit Trade, "Illicit Trade in Counterfeit Medicines," Paris, 30-31 March 2015. Presentation available at: http://www.slideshare.net/OECD-GOV/lybecker-tfcit2015 Agenda available at: http://www.oecd.org/gov/risk/tfcit-2015-agenda.pdf Preliminary version available at: http://www.oecd.org/gov/risk/illicit-trade-converging-criminalnetworks.pdf Final Report available at: http://www.oecd.org/governance/trade-in-counterfeit-and-pirated-goods-9789264252653-en.htm

Elected Vice President/Secretary, 2015-2016 Western Social Science Association http://wssa.asu.edu/

Invited Speaker

Hudson Institute and Observer Research Foundation, "India's Economic Engagements with the World," Panel Discussion: Innovation, Intellectual Property Rights & Healthcare, New Delhi, India, March 26, 2014.

Invited Speaker

PhRMA AMACS meeting, "Asian Managers Annual Conference and Seminar"February 19-21, 2014, Singapore, Singapore"Universal Health Coverage (UHC): The Role of the Private Sector in Achieving UHC in Asia""How Indian IP is Undermining Global Health and Trade"

Winner of the "Best Economics Paper of 2013"

Academy of Economics and Finance, 2014 "Paying for College One Course at a Time: Allocative Efficiency Using the Colorado College Course Bidding System" coauthored with Cassandra Benson ('12) and Daniel Johnson

- Senior Fellow, The Fraser Institute, Vancouver, BC, Canada, 2013- present http://www.fraserinstitute.org/about-us/who-we-are/staff/senior-fellows.aspx
- Invited Guest Contributor, 2013- present IPWatchDog, leading source for news and information in the patent and innovation industries

Invited Monthly Guest Contributor, 2012-present *Apothecurry*, preeminent blog on India's pharmaceutical and healthcare industries http://apothecurry.wordpress.com/

Invited Presentation

Trans-Pacific Partnership Trade Negotiations, 16th Round of Negotiations, Singapore, 6 March 2013 "The Trans-Pacific Partnership and the Economics of Access to Medicines: The Challenges of Pharmaceutical Patents, Innovation and Access for Global Health"

Elected Board Member, 2012-2015

Western Social Science Association http://wssa.asu.edu/

Invited Participant, Roundtable Discussion

The White House Business Council and Business Forward, Roundtable Discussion with The Honorable Jose Fernandez, Assistant Secretary for Economic and Business Affairs, U.S. Department of State, Denver Metro Chamber of Commerce, May 17, 2012.

Invited Participant, Roundtable Discussion

Roundtable Discussion with Senator Michael Bennet, "Global Biomedical Industry" Presented by We Work for Health of Colorado Denver Metro Chamber of Commerce, April 5, 2012.

Invited Speaker

Harvard International Law Journal Symposium 2011, 25 March 2011 "Developments and Challenges in International Intellectual Property Law"

Research Associate

Cameron Institute, 2008 – present http://ezcameroni.ezpublish14.us.ezdeal.no/site

Chapman Fellowship Foundation Grant Dean of the College, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017

Colorado College

Faculty-Student Collaborative Research Grant Dean's Advisory Committee Colorado College Summer 2008: Alex I. Brody '09 Summer 2009: Alex Stiller-Shulman '10 Summer 2010: Hunter 'Phoenix' Van Wagoner '13 Summer 2011: Antonio Skarica '12

- Summer 2012: Lachlan Watkins '14
- Summer 2016: Aabhusan Khadka '18
- Summer 2017: John Higham '18

Summer 2018: Ella Tulchinsky '19 Summer 2020: Mathias Walder '21

Curricular Development Grant Dean of the College, Summer 2008 Colorado College

Advisory Board Member Patents & Patients, 2007 to present http://www.patientsandpatents.com/

Development Block 2008-2009 Social Science Executive Committee, December 2007 Colorado College

Colorado College Grants Christian A. Johnson Endeavor Foundation, October 2007 Divisional Research and Development Funds, joint with Daniel Johnson, November 2007

Membership

Beta Gamma Sigma, Honor Society for Collegiate Schools of Business, April 2005 Drexel University

Honorary Chairwoman

National Republican Congressional Committee's Business Advisory Council, April 2006

Membership

Cambridge Who's Who Among Executive and Professional Women, December 2006 International Who's Who of Professionals and Executives, April 2006 International Who's Who of Professional Educators, April 2005 International Who's Who Historical Society

Invited Speaker

Drexel Center for Academic Excellence, LeBow College Lecture, August 2004 Drexel University

Invited Speaker

Drexel Economics Society, Beating the Labor Market: A Symposium on Jobs, May 2004 Drexel University

Industry Expert, Invited Panelist

Product Surety Working Groups for Foods, Pharmaceuticals, and Biologics, US Food and Drug Administration and Reconnaissance International, selected meetings, 2002-2003.

Invited Speaker

Students for Social Justice, Poverty Awareness Week, January 2003 Drexel University

Pharmaceutical Industry Sponsored Research Grant Ad Hoc Working Group on Pharmaceutical Economics, 2002

Invited Participant

UK Commission on Intellectual Property Rights, How Intellectual Property Rights Could Work Better for Developing Countries and Poor People, at the Royal Society, London, England, February 21-22, 2002 Koret Research Grant Department of Economics, University of California, Berkeley, 1997

Outstanding Teaching Award Department of Economics, University of California, Berkeley, 1994

Foreign Language Area Studies Graduate Fellowship University of California, Berkeley, 1991-1992

RESEARCH ACTIVITY

Social Science Research Network (SSRN)

Milestone of 7,000 SSRN downloads, 8 December 2020

Top 10% of SSRN authors by all-time downloads, monthly July 2017 - present

Top 10% of SSRN authors by total new downloads in the last 12 months, September 2017 - present

Top 10% of SSRN authors by monthly downloads, March 2017 - August 2017

"Distorted Drug Patents" ~ Joint work with Erika Lietzan, University of Missouri School of Law

- Paper listed on SSRN's Top Ten Download Lists
- For PharmSciRN: Pharmaceutical Intellectual Property Protection, February 2020.
- For Industrial Organization & Regulation eJournals, October 2019
- For Law & Society: Private Law eJournals, October 2019
- For ERN: Intellectual Property (Topic), October 2019
- For IO: Productivity, Innovation & Technology eJournal, October 2019
- For Intellectual Property Law eJournals, October 2019
- For Law & Society: Private Law Intellectual Property eJournal, October 2019
- For MedRN Subject Matter eJournals, October 2019
- For Medical Research Network and Medical Specialties eJournals, October 2019
- For Intellectual Property: Empirical Studies eJournal, October 2019
- For Intellectual Property: Patent Law eJournal, October 2019
- For LSN: Patent (Topic) and Public Health eJournal, October 2019

"State Pharmaceutical Importation Programs: An Analysis of the Cost Effectiveness"

- Paper listed on SSRN's Top Ten Download Lists
- For Health Economics Network: August 2019
- For Health Economics eJournal: July 2019, August 2019
- For Political Economy: National, State & Local Government July 2019, August 2019
- For Intergovernmental Relations eJournal: July 2019, August 2019
- For PSN: International Trade Regulation (Topic): July 2019
- For ERN: National, State & Local Government: July 2019
- For Health, Education, & Welfare (Topic): July 2019
- For HEN: Antitrust & IO (Sub-Topic): July 2019
- For HEN: Information (Topic): July 2019
- For HEN: Law & Regulation (Topic): July 2019
- For HEN: Program Studies (Topic): July 2019
- For HEN: Regulation (Sub-Topic): July 2019
- For Health Economics Evaluation Methods eJournal: July 2019

- Fpr PSN: Prescription Drugs & Antibiotics (Topic): July 2019
- For Public Goods & Regulation in Health Economics eJournal: July 2019

"Challenges to Technology Transfer: A Literature Review of the Constraints on Environmental Technology Dissemination"

- Paper listed on SSRN's Top Ten Download Lists
- For Social Innovation eJournal: June 2020
- For PSN: Technology (Topic): June 2019, July 2019
- For ERN: Management of Technological Innovation & R&D in Developing Economies (Topic): July 2019
- For ERPN: Social Responsibility, Sustainability & Environmental Policy (Sub-Topic): December 2019.

"Evergreening of Pharmaceutical Exclusivity: Sorting Fact from Misunderstandings and Fiction"

- Paper listed on SSRN's Top Ten Download List, May 2018
- For: HEN Subject Matter eJournals, HEN: Law & Regulation (Topic), HEN: Regulation (Sub-Topic), Health Economics Network and Public Goods & Regulation in Health Economics eJournal.

PEER REVIEWED PUBLICATIONS

"Distorted Drug Patents"

- Joint work with Erika Lietzan, University of Missouri School of Law
- Washington Law Review, October 2020, vol.95, no.3, pp.1317-1382.
- HTTPS://DIGITALCOMMONS.LAW.UW.EDU/CGI/VIEWCONTENT.CGI?ARTICLE=5134&CONTEXT=WLR

"Pharmaceutical Patent Protection: Key Issues and Dilemmas"

- <u>The Palgrave Encyclopedia of Global Security Studies</u>, Scott Romaniuk et al. (Eds), Springer Nature Switzerland AG, 19 July 2020.
- HTTPS://LINK.SPRINGER.COM/CONTENT/PDF/10.1007%2F978-3-319-74336-3 635-1.PDF

"State pharmaceutical importation programmes: an analysis of the cost-effectiveness"

- Journal of Pharmaceutical Health Services Research, June 2020, vol.11, no.2, pp.117-126.
- HTTPS://ONLINELIBRARY.WILEY.COM/DOI/ABS/10.1111/JPHS.12349

"The Challenges of Canadian Pharmacare are More Complicated Than Acknowledged"

- International Journal of Health Policy and Management, February 2020, pp.1-3.
- HTTP://WWW.IJHPM.COM/ARTICLE_3756.HTML

"Sure, but who has the energy? The importance of location for knowledge transfer in the energy sector"

- Joint work with Daniel Johnson, Colorado College
- Energy Economics, vol.80, May 2019, pp.582-588. (published online 2/12/19)
- https://www.sciencedirect.com/science/article/pii/S014098831930057X?via%3Dihub

"The Innovation Paradox: Pharmaceutical Marketing Exclusivity and Incentives for Drug Development"

- Joint work with Erika Lietzan, University of Missouri School of Law
- Journal of Pharmaceutical Health Services Research, June 2019, vol.10, no.2, pp.169-176.
- HTTPS://ONLINELIBRARY.WILEY.COM/DOI/EPDF/10.1111/JPHS.12288

"Is Wal-Mart a Bad Neighbor? Repeat sales evidence on how residential property values react to a new Bigbox Store"

- Joint work with Dan Johnson, Colorado College
- *Open Journal of Social Sciences*, vol.6, no.8, 2018.
- https://file.scirp.org/pdf/JSS_2018080114340859.pdf

"Economic Growth and Prosperity Stem from Effective Intellectual Property Rights"

- *George Mason University Law Review*, 24 Geo. Mason L. Rev. 865 (2017).
- http://georgemasonlawreview.org/wp-content/uploads/2017/09/24_4_Lybecker.pdf

"Do Restrictions Beget Responsibility? The Case of U.S. Abortion Legislation"

- Joint work with Amanda J. Felkey, Lake Forest College
- The American Economist, vol.63, no.1, 2018, pp.59-70.
- <u>HTTP://JOURNALS.SAGEPUB.COM/DOI/FULL/10.1177/0569434517692972</u>

"Intellectual Property Protection for Biologics: Why the Trans-Pacific Partnership (TPP) Trade Agreement Fails to Deliver"

- Journal of Commercial Biotechnology, April 2016, vol.22, no.01, pp.42-48.
- http://commercialbiotechnology.com/index.php/jcb/article/view/731

"Should I Buy Here, or Keep Driving? The Effect of Geographic Market Density on Retail Gas prices"

- Joint work with Dan Johnson, Devin Nadar and Amy Schultheis, Colorado College
- Journal of Business, March 2016, vol.01, no.02, pp.12-20.
- http://journalofbusiness.us/index.php/site/article/view/20/5

"The Role of Restrictive Abortion Legislation in Explaining Variation in Oral Contraceptive Use"

- Joint work with Amanda J. Felkey, Lake Forest College
- *Clinics in Mother and Child Health*, 2015, vol.12, no.4, pp.1-10.
- Available at: http://www.omicsonline.com/open-access/the-role-of-restrictive-abortion-legislationin-explaining-variation-in-oral-contraceptive-use-2090-7214-1000200.pdf

"The NWIMBY Effect (No Wal~Mart in My Backyard): Big Box Stores and Residential Property Values"

- Joint work with Dan Johnson, Alex Stiller-Shulman, Nicole Gurley, and Stephen Fischer
- Journal of Business and Policy Research, vol.11, no.2, December 2016, pp.65-79.
- Available at: https://zantworldpress.com/product-single/?poId=2974&pageId=2966

"Eco-innovation: A literature review of the challenges facing the development of green technologies"

- Joint work with Dan Johnson, Colorado College
- Chapter 2 in <u>Technology, Innovations and Economic Development, Essays in Honour of Robert E.</u> <u>Evenson</u>, Lakhwinder Singh, K.J. Joseph, and Daniel K.N. Johnson, editors, Sage Publications, New Delhi, India, 2015.

"Bidding for Classes: Course Allocation Under the Colorado College Auction System"

- Joint work with Dan Johnson and Cassie Benson, '11 Colorado College
- Best Paper Prize from Academy of Economics & Finance, 2013.
- Journal of Economics and Finance Education, 2014 (Conference Proceedings)

"Innovation and Technology Dissemination in Clean Technology Markets and the Developing World: The Role of Trade, Intellectual Property Rights, and Uncertainty"

- Journal of Entrepreneurship, Management and Innovation, 2014, vol.10, no.2, pp.7-38.
- Available at: http://jemi.edu.pl/all-issues/vol10/issue2/

"When Patents Aren't Enough: Why Biologics Necessitate Data Exclusivity Protection"

- *William Mitchell Law Review*, 2014, vol.14, no.4, pp.1427-1442.
- Available at: http://open.wmitchell.edu/wmlr/vol40/iss4/7

"Liability Risk in the Pharmaceutical Industry: Tort Law in the US and UK"

- Joint work with Lachlan Watkins (class of 2014)
- The Social Science Journal, December 2015, vol.52, no.4, pp.433-448.
- Available at: http://www.sciencedirect.com/science/article/pii/S0362331914000184

"Utilization of Oral Contraception: The Impact of Direct and Indirect Restrictions on Access to Abortion"

- Joint work with Amanda J. Felkey, Lake Forest College
- The Social Science Journal, vol.51, no.1, March 2014, pp.44-56.

"Paying for Green: A literature review of the constraints on financing environmental technology"

- Joint work with Dan Johnson, Colorado College
- *Electronic Green Journal*, vol.33, no. 1, September 2012, pp.1-10.
- http://escholarship.org/uc/item/6ks30864#page-1

"The Economics of Access to Medicines: Meeting the Challenges of Pharmaceutical Patents, Innovation and Access for Global Health"

- Harvard International Law Journal, online, vol.53, December 2011, pp.25-43.
- Available at: http://www.harvardilj.org/2011/12/online_53_lybecker/

"Innovative Proposals for Incentivizing Drug Development"

- Drug Development, (volume 2 by InTech Publishing)
- Available at: http://www.intechopen.com/articles/show/title/innovative-proposals-for-incentivizing-drug-development

"Variation in Pill Use: Do Abortion Laws Matter?"

- Joint work with Amanda J. Felkey, Lake Forest College
- International Journal of Business and Social Science, vol.2, no.16
- Available at: http://www.ijbssnet.com/journals/Vol_2_No_16_September_2011/1.pdf

"Does Distance Matter Less?: The Changing Role of Geography in Biotechnology Innovation"

- Joint work with Dan Johnson
- Review of Industrial Organization, published online 12 August 2011
- Available at: http://www.springerlink.com/content/173q681j8x847p3/fulltext.pdf

"Does HAVA help the 'Have-Nots'? US adoption of new election equipment, 1980-2008"

- Joint work with Dan Johnson, Colorado College
- Growth and Change, vol.42, no.4, December 2011, pp.601-627.

"Retention of Economics Principles by Undergraduates on Alternative Curricular Structures"

- Joint work with Dan Johnson, Colorado College and Corri Taylor, Wellesley College
- Journal of Education for Business, vol.86, September 2011, pp. 332–338

"Determinants of Recent Online Purchasing and the Percentage of Income Spent Online"

- Joint work with Brendan Hannah '08, Colorado College
- International Business Research, vol.3, no.4, October 2010

"Compulsory Licensing in Canada and Thailand: Comparing Regimes to Ensure Legitimate Use of the WTO Rules"

- Joint Work with Lis Fowler, World Health Advocacy, Canada
- Journal of Law, Medicine and Ethics, Summer 2009, vol.37, no.2, pp.222-239.

"Innovation and Access to Medicines: The Poor should be able to have their medicine and take it too"

International Journal of Health Research, March 2008, vol.1, no.1, pp.5-10.

"Managing Across Boundaries,"

- Joint work with Melissa M. Appleyard, Portland State University, and Clara Y. Wang, Ithaca NY
- Journal of Managerial and Decision Economics, July 2008, vol.29, issue 5, pp.383-388.

"Keeping It Real: Anticounterfeiting Strategies for the Pharmaceutical Industry,"

• *Journal of Managerial and Decision Economics*, July 2008, vol.29, issue 5, pp.389-405.

"Extending Monopoly Power Under Joint Production"

- Joint work with Robert J. Lemke, Lake Forest College
- Journal of Industrial Organization Education (Berkeley Electronic Press), vol.2, issue 1, 2007

"Funding Pharmaceutical Innovation through Direct Tax Credits"

- Joint work with Robert A. Freeman, Texas A&M Health Science Center
- Journal of Health Economics, Policy & Law, August 2007, volume 2, issue 03, pp 267-284.

"Social, ethical and legal issues in drug development, marketing, and pricing policies: setting priorities – pharmaceuticals as private organizations and the duty to make money & maximize profits"

• Chapter 2 in <u>The Power of Pills</u>, ed. Jillian Clare Cohen, Patricia Illingworth and Udo Scheklenk, Pluto Press, Ann Arbor, Michigan, 2006, pp.25-31.

"Drugs & Taxes: Lower Prescription Drug Prices through Direct Tax Credits"

- Joint work with Robert A. Freeman, Texas A&M Health Science Center
- Journal of Pharmaceutical Finance, Economics & Policy, 2006, volume 14, no.2, pp.69-95.

"Rx Roulette: Combatting Counterfeit Pharmaceuticals in Developing Nations"

• Journal of Managerial and Decision Economics, August 2007, volume 28, pp.509-520.

"The Effect of the Nonprofit Motive on Hospital Competitive Behavior"

- Joint work with Teresa Harrison, Drexel University
- Berkeley Economic and Policy Analysis Electronic Journal, 2005, vol.4, no.1, article 3.

"AIDS Policy and Pharmaceutical Patents: Brazil's Strategy to Safeguard Public Health"

- Joint work with Jillian Clare Cohen, Faculty of Pharmacy, University of Toronto
- The World Economy, Spring 2005, pp.211-230.

"Parallel Imports or Imposters: The Economics of Reimportation and Counterfeit Pharmaceuticals"

• Journal of Pharmaceutical Marketing & Management, 2004, vol.16, issue 3, pp.79-98.

"Economics of Reimportation and Risks of Counterfeit Pharmaceuticals"

• *Managed Care*, vol.13, no.3, March 2004, pp.10-14.

"The Economic Fundamentals of the U.S. Pharmaceutical Industry"

• Managed Care, vol.13, no.6, June 2004, pp.7-10.

OTHER PUBLICATIONS

"Biologics and Biosimilars: A Primer"

- Fraser Institute, Vancouver, BC, Canada, 6 July 2020.
- https://www.fraserinstitute.org/sites/default/files/biologics-and-biosimilars-a-primer.pdf

"The Unintended Consequences of National Pharmacare Programs: The Experiences of Australia, New Zealand, and the UK"

- Fraser Institute, Vancouver, BC, Canada, 12 December 2018.
- https://www.fraserinstitute.org/studies/unintended-consequences-of-national-pharmacare-programs

"Intellectual Property Rights Protection and the Biopharmaceutical Industry: How Canada Measures Up" "Pharmaceutical Counterfeiting: Endangering Public Health, Society and the Economy"

- Fraser Institute, Vancouver, BC, Canada, 8 February 2018.
- https://www.fraserinstitute.org/sites/default/files/pharmaceutical-counterfeiting-endangering-publichealth-society-and-the-economy.pdf

"Intellectual Property Rights Protection and the Biopharmaceutical Industry: How Canada Measures Up"

- Fraser Institute, Vancouver, BC, Canada, 24 January 2017.
- https://www.fraserinstitute.org/studies/intellectual-property-rights-protection-and-thebiopharmaceutical-industry-how-canada-measures-up

"The Biologics Revolution"

- Chapter 1 in "Intellectual Property Rights and the Promotion of Biologics, Medical Devices and Trade in Pharmaceuticals"
- Fraser Institute, Vancouver, BC, Canada, 14 October 2016.
- https://www.fraserinstitute.org/studies/intellectual-property-rights-and-the-promotion-ofbiologics-medical-devices-and-trade-in-pharmaceuticals

"Sure, But Who Has the Energy? The Importance of Location for Knowledge Transfer in the Energy Sector"

- Joint work with Jeffrey A. Moore and Dan Johnson.
- Proceedings of Academics World International Conference, Macau, China, 15-16 September 2016.

"The Biologics Revolution in the Production of Drugs"

- Fraser Institute, Vancouver, BC, Canada, 12 July 2016.
- https://www.fraserinstitute.org/sites/default/files/biologics-revolution-in-the-production-ofdrugs.pdf

"Illicit Trade in Counterfeit Medicines"

- Chapter 4, in <u>OECD Reviews of Risk Management Policies:</u> Illicit Trade Converging Criminal <u>Networks</u>, OECD Publishing, Paris, 18 April 2016, pp.79-122.
- http://www.oecdbookshop.org/browse.asp?pid=title-detail&lang=en&ds=&ISB=9789264251847
- Launch of the associated report, "Trade in Counterfeit and Pirated Goods: Mapping the Economic Impact" may be viewed at: http://www.oecd.org/governance/trade-in-counterfeit-and-pirated-goods-9789264252653-en.htm

"Trade in Counterfeit and Pirated Goods: Mapping the Economic Impact"

- Contributing expert, based on "Illicit Trade in Counterfeit Medicines"
- http://www.oecdbookshop.org/en/browse/title-detail/?ISB=9789264252653
- Launch may be viewed at: http://www.oecd.org/governance/trade-in-counterfeit-and-pirated-goods-9789264252653-en.htm

"The NWIMBY Effect (No Wal~Mart in My Backyard): Big Box Stores and Residential Property Values"

- Joint work with Dan Johnson, Alex Stiller-Shulman, Nicole Gurley, and Stephen Fischer
- Proceedings of Business and Social Sciences Research Conference, Ambassador Hotel, Bangkok, Thailand, 10-11 December 2015.

"Incremental Innovation in the Pharmaceutical Industry"

• Fraser Institute, Vancouver, BC, Canada, June 2014

"Health Care in India: Challenges and Opportunities"

• Chapter in Indian and the Global Economy, edited by Husain Haqqani, Hudson Institute, July 2014

Review of <u>The war of the sexes: How conflict and cooperation have shaped men and women from prehistory</u> to the present, P. Seabright. Princeton University Press, Princeton, NJ (2012), 241

• The Social Science Journal, vol.51, no.1, March 2014, pp.156-157.

"Strengthening Intellectual Property Protection for Pharmaceutical Innovation: What Canada Stands to Gain"
Fraser Institute, Vancouver, BC, Canada, May 2013

• Fraser Institute, Vancouver, BC, Canada, May 2015

"The Bulk Purchase of Pharmaceuticals: The Experiences of the United States, Europe, and New Zealand"

- Fraser Institute Studies in Health Care Policy, Fraser Institute, Vancouver, BC, Canada, May 2013
 - https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2317532

Review of <u>Enduring Legacies: Ethnic Histories and Cultures of Colorado</u>, edited by Arturo Aldama with Elisa Facio, Daryl Maeda, and Reiland Rabaka; Boulder, CO: University Press of Colorado, 2011.

• *The Social Science Journal*, vol.49, no.4, December 2012, p.421.

"The Healing Arts: Analysis of the Knowledge Flows between Successive Generations of Innovation in the Pharmaceutical Sector"

- Joint work with Dan Johnson and Jeffrey Moore, Colorado College
- International Conference on Business & Economics, Proceedings, Istanbul, August 2012.

"Ain't No Sunshine When You're Gone: Analysis of the Knowledge Flows Between Successive Generations of Solar Innovations"

- Joint work with Dan Johnson and Jeffrey Moore, Colorado College
- *IEEE Proceedings, International Conference on Management and Service Science*, Shanghai, August 2012.

"Planes, Trains and Automobiles: The Importance of Location for Knowledge Transfer in the Transportation Sector"

- Joint work with Dan Johnson and Jeffrey Moore, Colorado College
- Conference proceedings of *Innovation through Knowledge Transfer*, Routledge Press, Bournemouth, UK, 2012, pp.149-158.
- http://inkt12.innovationkt.org/inkt12-Frontmatter.pdf

"Where are the Eco-Innovators? Analysis of the Knowledge Flows Between Successive Generations of Green Technology Innovations"

- Joint work with Dan Johnson and Jeffrey Moore, Colorado College
- World Renewable Energy Forum Solar Conference Proceedings 2012

"Can You Hear Me Now? The Importance of Location for Knowledge Transfer in the Telecommunications Sector"

- Joint work with Dan Johnson, Colorado College and Jeffrey Moore, Colorado College
- 2012 IEEE International Technology Management Conference Proceedings, Dallas, TX, June 25-27, 2012, pp. 300-307.

"Innovation Nation / Nation innovante: Improving Canada's drug patent protection: Good for Canada, good for trade"

- Joint work with Brian Lee Crowley
- *Policy Options*, vol.33, no.3, March 2012, pp. 69-73.

"The Effectiveness of Disease Management Programs in the Medicaid Population"

- Joint work with Robert A. Freeman, Texas A&M; D. Wayne Taylor, McMaster University
- Analysis done for the Partnership to Fight Chronic Disease
- Online at The Cameron Institute, Hamilton, ON, Canada, May 2011
- Available at: http://www.fightchronicdisease.org/sites/default/files/docs/Main%20Report%20-%20The%20effectiveness%20of%20DMPs%20in%20the%20Medicaid%20Pop%202011.pdf

"Parallel Imports and Innovation"

- Prepared for the symposium "Cross-border Internet Pharmacy: Public Policy Implications," organized by the Leslie Dan Faculty of Pharmacy, University of Toronto in association with the Center for Medications Use, Policy & Economics, University of Michigan. March 9, 2004.
- University of Toronto, Conference Proceedings.

"Improving Transparency in Pharmaceutical Systems: Strengthening Critical Decision Points Against Corruption"

• World Bank, Latin American and Caribbean Region, Human Development Network, May 2002, Jillian Clare Cohen, Rochika Chowdury, Hildebrand Haak, Ruth Levin, Kristina M. Lybecker, Joan Rovira

"Counterfeit Pharmaceuticals: The Problem"

Annex for World Bank Report "Brazil: The World Bank Pharmaceutical Sector Study" June 1999

"Abstract - Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries"

• Pharmaceutical Policy and Law, vol.1, Fall 2002, pp.1-3.

PAPERS UNDER SUBMISSION

"Evergreening of Pharmaceutical Exclusivity: Sorting Fact from Misunderstanding and Fiction"

- Joint work with Mark Schultz, Southern Illinois University School of Law and David Lund, CPIP George Mason University
- Working draft posted to SSRN, available at: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3170628&download=yes

"Is It Economics, Or the Bad Luck of a Conflict-Ridden DNA: A Study of the Causes of Civil War in the Middle East and North Africa"

- Joint work with Mayss R. Al Alami, '17 Colorado College
- Under review, Social Science Journal

TECHNICAL NOTES

"Canada can learn from Swiss and Dutch drug coverage"

- National Newswatch, 6 September 2019
- Coauthored with: Bacchus Barua
- https://www.nationalnewswatch.com/2019/09/06/canada-can-learn-from-swiss-and-dutch-drugcoverage/#.XXqrrmZ7nZs

"Colorado Wants Your Drugs"

- The Fraser Forum, 13 June 2019
- https://www.fraserinstitute.org/blogs/colorado-wants-your-drugs

"They Cost Us Billions and They Can Kill: Counterfeit Drugs are Invading Canada"

- The Financial Post, online edition, 2 March 2018.
- Available at: https://business.financialpost.com/opinion/they-cost-us-billions-and-they-can-kill-counterfeit-drugs-are-invading-canada

"Counterfeit Drug Trade Poses Increasing Danger to Canadian Patients"

- Canadian Student Review, The Fraser Institute, 23 April 2018, pp. 11-12.
- Available at: https://issuu.com/fraserinstitute/docs/canadian-student-review-spring-2018

"Canada's Inadequate Intellectual Property Rights Protections Hurt Patients and the Economy"

- The Quarterly, The Fraser Institute, Summer 2017, pp.8-9.
- Available at: https://www.fraserinstitute.org/article/canadas-inadequate-intellectual-property-rights-protections-hurt-patients-and-the-economy

"Brief for Amici Curiae 11 Professors in Support of Amgen, Inc., et al. As Cross-Petitioners"

- Amicus Brief, No. 15-1195, filed with the U.S. Supreme Court
- Coauthored with Erika Lietzan and Kevin E. Noonan
- March 2017

"Lower drug prices, lower costs, better care?"

- Coauthored with Nadeem Esmail
- The Fraser Forum, July/August 2013
- https://www.fraserinstitute.org/uploadedFiles/fraser-ca/Content/researchnews/research/articles/lower-drug-prices-lower-costs-better-care.pdf

"Comment Regarding the Joint Strategy Plan on Intellectual Property Enforcement Strategy"

• Comment submitted to the Office of Management and Budget, Coordination and Strategic Planning of the Federal Effort Against Intellectual Property Infringement, 22 March 2010.

"Comment on the EU Commission Public Consultation: Key Ideas for Better Protection of Patients against the Risk of Counterfeit Medicines"

• Comment submitted to the European Commission Enterprise and Industry Directorate General, 6 May 2008.

"Comment: Human Rights Guidelines for Pharmaceutical Companies in relation to Access to Medicines"

• Comment submitted to the United Nations for the UN Special Rapporteur Paul Hunt on the Draft for Consultation, 31 March 2008.

"Authorized Generic Drugs: Gauging the Impact"

- Technological Innovation and Intellectual Property Newsletter, 6 September 2007.
- http://www.researchoninnovation.org/tiip/

Special Issue: Patents, Pharmaceuticals and the Third World

- Invited contributors F.M. Scherer, J.O. Lanjouw, Keith E. Maskus, Kristina M. Lybecker
- Technological Innovation and Intellectual Property Newsletter, 2003.3, June 2003.
- http://www.researchoninnovation.org/tiip/

"Do Patents Inhibit AIDS Treatment in Africa?"

- Technological Innovation and Intellectual Property Newsletter, 2003.1, February 2003.
- http://www.researchoninnovation.org/tiip/

"Is Intellectual Property the Best Incentive System?"

- Technological Innovation and Intellectual Property Newsletter, 2002.4, November 2002.
- http://www.researchoninnovation.org/tiip/

"Proposal for Third World Pharmaceuticals"

- Technological Innovation and Intellectual Property Newsletter, 2002.3, August 2002.
- http://www.researchoninnovation.org/tiip/

"The Effects of Patent Protection on the Prices of Pharmaceutical Products"

- Technological Innovation and Intellectual Property Newsletter, 2002.1, May 2002.
- http://www.researchoninnovation.org/tiip/

TEACHING CASES

"Hyperinflation in Zimbabwe"

- Case submitted to the Teaching Innovations Program Case Bank, March 2009.
- Posted online for use by all AEA TIP participants as a teaching resource.

PUBLICATIONS ~ OTHER

"Are You Feeling Lucky?: Test your knowledge of the next WSSA Conference site, San Francisco, CA"

- WSSA News, vol.48, no.3, Fall 2016, pp.10-11.
- http://www.wssaweb.com/documents/newsletter/Fall_2016_newsletter.pdf

"Are You Feeling Lucky?: Test your knowledge of the next WSSA Conference site, Reno, NV"

- WSSA News, vol.48, no.1, Spring 2016, pp.7-8.
- http://www.wssaweb.com/documents/newsletter/Spring_2016_newsletter_(2).pdf

"What Employers Want"

- WSSA News, vol.47, no.2, Fall 2015, pp.4,11
- http://www.wssaweb.com/documents/newsletter/Fall 2015 newsletter.pdf

"Illicit Trade in Counterfeit Medicines," confidential report written for the Organization of Economic Cooperation and Development (OECD), 3rd Meeting of the Task Force on Charting Illicit Trade ,OECD, Paris, 30-31 March 2015.

- Presentation available at: http://www.slideshare.net/OECD-GOV/lybecker-tfcit2015
- Agenda available at: http://www.oecd.org/gov/risk/tfcit-2015-agenda.pdf
- Preliminary version available at: http://www.oecd.org/gov/risk/illicit-trade-converging-criminalnetworks.pdf

Book Review "War of the Sexes" for the Social Science Journal, March 2014, vol.51, no.1, pp.156-157.

"Pick Me! Pick Me! What to look for in a coauthor."

• WSSA News, vol.46, no.2, Fall 2014, pp.1,4.

"Get to Know Albuquerque New Mexico"

• WSSA News, vol.46, no.1, Spring 2014, pg.5.

"Myth: Economics is the study of Money"

• WSSA News, vol.46, no.1, Spring 2014, pp.8-9.

"Test Your Colorado IQ!"

• WSSA News, vol.44, no.2, Fall 2012, pp.5, 13-14.

TESTIMONY & INVITED SPEECHES

Research Expert. Presentation "The Economics of Importation and Counterfeit Pharmaceuticals," Colorado House of Representatives, Denver, CO, April 2, 2019.

Research Expert. Presentation "Pharmaceutical Imports or Imposters: The Economics of Importation and Counterfeit Pharmaceuticals," at "We Work for Health CO / Partnership for Safe Medicines Briefing," Denver, CO, April 16, 2018.

Research Expert. Conversations and consultation with 3M on their anticounterfeiting technologies for biopharmaceuticals. Work with Drew Brown and Oscar Naim D'Paola, January 2018.

Invited Speaker. "Intellectual Property and Global Prosperity", 4th Annual Fall Conference, Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, Arlington, VA, October 6-7, 2016. Available at: http://cpip.gmu.edu/conferences/2016-fall-conference/

Colorado College, Advanced Topics in Chemistry: Medicinal Chemistry (CH400), guest lecture on the Economics of the Pharmaceutical Industry, Colorado Springs, CO, 7 April 2016.

Colorado College, "Pharm to Table: A Panel on HIV, Pharmaceuticals, Pricing, Access, and More", panel member and speaker for PHIA, Colorado Springs, CO, 3 February 2016.

Organization of Economic Cooperation and Development (OECD), 3rd Meeting of the Task Force on Charting Illicit Trade, "Illicit Trade in Counterfeit Medicines," OECD, Paris, 30-31 March 2015. Presentation available at: http://www.slideshare.net/OECD-GOV/lybecker-tfcit2015 Agenda available at: http://www.oecd.org/gov/risk/tfcit-2015-agenda.pdf Preliminary version available at: http://www.oecd.org/gov/risk/illicit-trade-converging-criminalnetworks.pdf

Colorado College, Advanced Topics in Chemistry: Medicinal Chemistry (CH400), guest lecture on the Economics of the Pharmaceutical Industry, Colorado Springs, CO, 4 February 2015.

Position Statement for PhRMA to deliver to the Brazilian Congress regarding Brazilian patent law, September 30, 2013.

Position Statement for PhRMA to deliver to the Rapporteur regarding Brazilian patent law, September 27, 2013.

Hudson Institute and Observer Research Foundation, "India's Economic Engagements with the World," Panel Discussion: Innovation, Intellectual Property Rights & Healthcare, New Delhi, India, March 26, 2014.

PhRMA, 26th Asia Managers Annual Conference & Seminar (AMACS 2014), "How Indian IP is Undermining Global Health and Trade," Singapore, Singapore, February 20, 2014.

*Ph*RMA, 26th Asia Managers Annual Conference & Seminar (AMACS 2014), "Universal Health Coverage (UHC): The Role of the Private Sector in Achieving UHC in Asia," Singapore, Singapore, February 19, 2014.

Canadian Association for Healthcare Reimbursement (CAHR), "Bulk Purchase of Pharmaceuticals: Reflecting on the Experiences of the U.S., Europe, and New Zealand", Ottawa, Canada, October 2, 2013.

Idaho State University, Frank Church Symposium 2013, "The Economics of Access to Medicines Meeting the Challenges of Pharmaceutical Patents, Innovation and Access for Global Health," Pocatello, ID, February 28, 2013.

Idaho State University, Frank Church Symposium 2013, "The Challenges of Green Technology," Pocatello, ID, February 27, 2013.

The White House Business Council, Executive Forum with Assistant Secretary of State for Economic and Business Affairs, Mr. Jose Fernandez, invited discussant, Denver, CO, 17 May 2012.

Colorado College, Students for Global Health, Women's Global Health Panel, panel member and speaker, Colorado Springs, CO, 16 April 2012.

Colorado College, Board of Trustees Meeting, "Engaging Students in Faculty Research," Colorado Springs, CO, 24 February 2012.

Conference Board of Canada, Center for the Advancement of Health Innovations, "The Emerging IP Landscape," Winnipeg, Manitoba, Canada, April 12-13, 2011.

Harvard Law School, Harvard International Law Journal 2011 Symposium, "Developments and Challenges in International Intellectual Property Law," presentation entitled "The Economics of Access to Essential Medicines," Cambridge, MA, March 25, 2011.

University of Nebraska – Lincoln, "The NWIMBY Effect (No Wal~Mart In My Backyard): Big Box Stores and Residential Property Values," Department of Economics Seminar Series, Lincoln, NE, October 23, 2009.

Women in Government, "Patents and Access to Medicines in Developing Countries: The Economics of Innovation," 15th Annual State Directors Conference, St. Petersburg, FL, January 3, 2009.

Community Health Charities of New Mexico, "Buying Drugs in Mexico: The Pros and The Cons," 2008 Annual Meeting Lunch, Albuquerque, NM, June 10, 2008.

Symposium on Innovation, Patients and Public Health, "Patents and Access to Medicines in Developing Countries: An Economic Perspective," Budapest, Hungary, February 19, 2008.

Latin American Conference on Access to Medicines and Public Policy for Patient Associations, "Economics of Access to Medicines in Developing Countries," and "Factors Stimulating Drug Development in the 21st Century," Sao Paulo, Brazil, February 17, 2008.

PhRMA Briefing, "Safety of the Pharmaceutical Supply Chain," Washington, DC, January 30, 2008.

National Press Club Canada, "Patents and Access to Medicines in Developing Countries: An Economic Perspective," Ottawa, Ontario, Canada, October 22, 2007.

Colorado College, Department of Economics "Patents, Prices & Pirates: Challenges to the International Pharmaceutical Industry," Colorado Springs, CO, April 10, 2006.

Rhode Island Senate, Senate Finance Committee, Testimony on Importation of Canadian Pharmaceuticals, Providence, RI, May 19, 2005.

Texas Healthcare and Bioscience Institute Advocacy Day, Presentation on the Importation of Pharmaceuticals from Canada, Austin, TX, February 17, 2005.

North Carolina General Assembly, Presentation on the Importation of Pharmaceuticals from Canada, 2005 Healthcare Forum, Raleigh, NC, February 8, 2005.

*Ph*RMA Alliance Development Annual Meeting, Canadian Drug Importation, Annapolis, MD, December 7, 2004.

State of Rhode Island and Providence Plantations Department of Health, Testimony on the Importation of Pharmaceuticals from Canada, Community Review of the proposed Rules and Regulations Pertaining to

Pharmacists, Pharmacies and Manufacturers, Wholesalers, and Distributors, Providence, RI, November 10, 2004.

Pennsylvania House of Representatives, Healthcare Excellence and Adaptability Resource Team (HEART) Committee, Testimony on the Importation of Pharmaceuticals from Canada, Ashland Regional Medical Center, Ashland, PA, September 29, 2004.

Washington Senate, Senate Judiciary Committee, Testimony on the Importation of Pharmaceuticals from Canada, Olympia, WA, September 21, 2004.

AstraZeneca Pharmaceuticals, GMPP Meeting, "Lessons for Legislators on Importation," Wilmington, DE, August 2004.

Rhode Island Health Advocacy Forum Meeting, Canadian Drug Importation, Providence, RI, September 9, 2004.

Greater Providence Chamber of Commerce, Canadian Prescription Drug Importation Briefing, Providence, RI, September 9, 2004.

Women In Government, "Parallel Imports or Imposters: The Economics of Reimportation and Counterfeit Pharmaceuticals," 6th Annual Eastern Regional Conference, Baltimore, MD, July 9, 2004.

Hoffmann-La Roche, Inc., "Parallel Imports or Imposters: The Economics of Reimportation and Counterfeit Pharmaceuticals," Nutley, NJ, June 22, 2004.

Rhode Island Senate, Senate Committee on Health and Human Services, Testimony on Importation of Canadian Pharmaceuticals, Providence, RI, May 26, 2004.

Patient Advocates for Medicine Network, Prescription Drug Importation Briefing, Presentation for Oregon State Legislators and Patient Advocacy Groups, Reimportation of Pharmaceuticals from Canada and the Problems of Pharmaceutical Counterfeiting, Portland, OR, April 29, 2004.

Patient Advocates for Medicine Network, Prescription Drug Importation Briefing, Oregon, Presentation for Oregon State Legislators and Patient Advocacy Groups, Reimportation of Pharmaceuticals from Canada and the Problems of Pharmaceutical Counterfeiting, Salem, OR, April 29, 2004.

Montana Governor's Third Annual Health Care Summit, Presentation for Montana's Elected Officials and Healthcare Representatives, Reimportation of Pharmaceuticals from Canada, Missoula, MT, April 27, 2004.

Massachusetts Senate, Testimony on the Reimportation of Pharmaceuticals from Canada, Boston, MA, April 8, 2004.

Bristol-Myers Squibb, Rx Drug Importation Panel, Bristol-Myers Squibb Policy and Government Affairs Department Meeting, Princeton, NJ, March 17, 2004.

Senate Commerce Committee, State of Tennessee, Testimony on the Reimportation of Pharmaceuticals from Canada, Nashville, TN, February 24, 2004.

Iowa Patient Advocates for Medicine Network, Prescription Drug Importation Briefing, Presentation for Iowa State Legislators and Patient Advocacy Groups, Reimportation of Pharmaceuticals from Canada and the Problems of Pharmaceutical Counterfeiting, Des Moines, February 17, 2004.

Minnesota Patient Advocates for Medicine Network, Prescription Drug Importation Briefing, Presentation for Minnesota Patient Advocacy Groups, Reimportation of Pharmaceuticals from Canada and the Problems of Pharmaceutical Counterfeiting, St. Paul, MN, November 12, 2003.

RESEARCH PRESENTATIONS AT PROFESSIONAL MEETINGS, UNIVERSITIES, & INSTITUTIONS

Fraser Institute, Fraser Institute Post-Secondary Seminar on Public Policy Issues. "Keeping It Real: Counterfeit Pharmaceuticals & Their Consequences", Vancouver, BC (virtual meeting), June 19, 2020.

Hoover Institution at Stanford University, "Distorted Drug Patents," (joint work with Erika Lietzan), First annual Technology, Innovation, and Intellectual Property program of the Classical Liberal Institute (CLI-TIIP), Palo Alto, California, January 24, 2020. [Our paper was one of only three manuscripts featured at the symposium.]

6th Annual Summer Institute, Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, Invited Participant, Beaver Creek, CO, July 23-25, 2019.

Western Social Science Association Annual Conference, "Microeconomic Questions Through the Undergraduate Lens", moderator, San Diego, CA, April 24, 2019.

Western Social Science Association Annual Conference, "Paradoxical Patent Terms," joint work with Erika Lietzan (Associate Professor of Law at the University of Missouri–Columbia), San Diego, CA, April 24, 2019.

Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, "Roundtable Discussion: The Law and Policy of Patented Innovation in the Biopharmaceutical Industry", discussant, Arlington, VA, November 8-9, 2018.

Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, "Roundtable Discussion: The Law and Policy of Patented Innovation in the Biopharmaceutical Industry", "Overlapping Patent Rights and the Rhetoric of 'Patent Thickets'" panel moderator, Arlington, VA, November 8-9, 2018.

Fraser Institute, Fraser Institute Post-Secondary Seminar on Public Policy Issues. "Keeping It Real: Counterfeit Pharmaceuticals & Their Consequences", Vancouver, BC, October 20, 2018.

U.S. Patent and Trademark Office, Office of the Chief Economist. "Biopharmaceutical Counterfeiting: An Economist's Perspective", Roundtable on Counterfeit Drugs, Alexandria, VA, August 24, 2018.

5th Annual Summer Institute, Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, Invited Participant, Beaver Creek, CO, July 15-17, 2018.

Western Social Science Association Annual Conference, "Using Microeconomics to Solve Problems Locally and Globally", moderator, San Antonio, TX, April 6, 2018.

Western Social Science Association Annual Conference, "Intellectual Property Rights, Infrastructure and HIV/AIDS", joint work with Cory Wake, San Antonio, TX, April 6, 2018.

Back to Basics: The Role of Property in the IP System, "Intellectual Property, Innovation, and Economic Growth", presentation and panel discussion, National Law University Delhi, Delhi, India, March 23, 2018.

International Conference on Social Sciences and Interdisciplinary Studies, "Sustainable Health: The Role of Pharmaceutical Patents," London, England, August 7-8, 2017.

4th Annual Summer Institute, Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, Invited Participant, Beaver Creek, CO, July 11-13, 2017.

International Conference for Business and Economics, "Pharmaceutical Evergreening: Separating Myth from Reality", Ca'Foscari University, Venice, Italy, June 20-23, 2017.

4th Annual Fall Conference, Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, "Intellectual Property and Global Prosperity", Arlington, VA, October 6-7, 2016. Available at: http://cpip.gmu.edu/conferences/2016-fall-conference/

3rd Annual Summer Institute, Center for the Protection of Intellectual Property (CPIP), Antonin Scalia School of Law, George Mason University, Invited Participant, Snoqualmie, WA, August 3-4, 2016.

International Academy of Business and Economics, "Global Trade Agreements: Implications for Sustained Research and Development," joint work with Robert Freeman, Florence, Italy, July 15, 2016.

Western Social Science Association Annual Conference, "Economics and Health", discussant, Reno, NV, April 15, 2016.

Western Social Science Association Annual Conference, "The Impact of the Complete Food Environment on County-level Obesity Rates", joint work with Julia Lawton, Reno, NV, April 15, 2016.

International Health Economics Association Meeting, "The Impact of Restrictive Abortion Legislation on Contraceptive Choice," joint work with Amanda J. Felkey, Milan, Italy, July 13, 2015.

Western Social Science Association Annual Conference, "The Economics of Obesity and Health", panel discussant, Portland, OR, April 9, 2015.

Western Social Science Association Annual Conference, "Health Economics", panel discussant, Portland, OR, April 9, 2015.

Western Social Science Association Annual Conference, ""The Impact of Restrictive Abortion Legislation on Contraceptive Choice"", joint work with Amanda J. Felkey, Portland, OR, April 9, 2015.

Western Social Science Association Annual Conference, "Predicting Diamond Performance," joint work with Elisabeth Asher, Albuquerque, NM, April 3, 2014.

Western Social Science Association Annual Conference, "Price Convergence after Cataclysm", discussant, Albuquerque, NM, April 4, 2013.

Western Social Science Association Annual Conference, "Credit Union Loan Rate Determinants following the 2008 Financial Crisis", discussant, Albuquerque, NM, April 5, 2014.

Western Social Science Association Annual Conference, "The Cost of a Wildfire in the West", discussant, Albuquerque, NM, April 5, 2014.

Asia Managers Annual Conference and Seminar (AMACS), 26th Annual Meeting, "How India IP is Undermining Global Health and Trade" Singapore, Singapore, 20 February 2014.

Asia Managers Annual Conference and Seminar (AMACS), 26th Annual Meeting, "Universal Health Coverage (UHC): The Role of the Private Sector in Achieving UHC in Asia" Singapore, Singapore, 19 February 2014.

Global Intellectual Property Center, U.S. Chamber of Commerce, "Trade Imbalance: Are Canada's Policies Harming American Innovation and Competitiveness?" Washington, DC, December 12, 2013.

Clute Institute International Academic Conference, "Bidding for Classes: Course Allocation Using the Colorado College Auction System," joint work with Cassie Benson and Dan Johnson, Paris, France, June 9-11, 2013.

Colorado College, SAB Research Symposium, "Liability Risk in the Pharmaceutical Industry: Tort Law in the US and UK," joint work with Lachlan Watkins, Colorado Springs, CO, April 25, 2013.

Colorado College, SAB Research Symposium, session moderator, Colorado Springs, CO, April 25, 2013.

Western Social Science Association Annual Conference, "Liability Risk in the Pharmaceutical Industry: Tort Law in the US and UK," joint work with Lachlan Watkins, Denver, CO, April 12, 2013.

Western Social Science Association Annual Conference, "Labor and entrepreneurship across minority groups", moderator and discussant, Denver, CO, April 12, 2013.

Western Social Science Association Annual Conference, "Macro and Regional Economics, Social Processes", moderator and discussant, Denver, CO, April 11, 2013.

IEEE 2012 International Technology Management Conference, "Can you hear me now? The Importance of Location for Knowledge Transfer in the Telecommunication Sector," joint work with Dan Johnson and Jeffrey Moore, Dallas, TX, June 24-27, 2012.

Western Social Science Association Annual Conference, "The Importance of National Identity to Trade Patterns: Post-Conflict Trade in Bosnia and Herzegovina" joint work with Antonio Skarica, Houston, TX, April 11-16, 2011.

Western Social Science Association Annual Conference, "International Trade: Palestine to South America to Eastern Europe" moderator and discussant, Houston, TX, April 11-16, 2011.

Western Social Science Association Annual Conference, "Health and Migration: New Insights from the Body Mass Index" moderator, Houston, TX, April 11-16, 2011.

Colorado College, Student Organization for Sexual Safety, "Abortion Laws and the Pill: Contraception and the Freedom to Choose," Colorado Springs, CO, December 15, 2011.

Institute for Business and Finance Research, Global Conference and Business and Finance, "Three's a Crowd, but Lowers Prices: The Effect of Geographic Density on Retail Gasoline Prices," joint work with Daniel Johnson and Devin Nadar, San Jose, Costa Rica, May 24-27, 2011.

Western Social Science Association Annual Conference, "The Role of Distance in Knowledge Flows in the Telecommunication Industry" joint work with Dan Johnson and Phoenix Van Wagoner, Salt Lake City, UT, April 13-15, 2011.

American Economics Association Annual Conference, "Research on Teaching Practices of Economics Faculty," discussant, Denver, CO, January 9, 2011.

Western Economics Association International Annual Conference, "Variation in Pill Use: Do Abortion Laws Matter?" joint work with Amanda Felkey of Lake Forest College, Portland, OR, July 1-3, 2010.

Western Social Science Association Annual Conference, "Eco-Innovation and Uncertainty ~ Exploring the Constraints to Green Tech: A literature review of the constraints on environmental innovation" joint work with Dan Johnson, Reno, NV, April 14-17, 2010.

Western Social Science Association Annual Conference, "The NWIMBY Effect (No Wal~Mart In My Backyard): Big Box Stores and Residential Property Values" joint work with Dan Johnson, Alex Stiller-Shulman, and Nikki Gurley, Reno, NV, April 14-17, 2010.

International Health Economics Association Meetings, "Variation in Pill Use: Do Abortion Laws Matter?" joint work with Amanda Felkey of Lake Forest College, Beijing, China, July 12-14, 2009.

Western Social Science Association Annual Conference, "Exploring the Decision to Patent: Socioeconomic Indicators and the Prevalence of Patents in Developing Nations" joint work with Alex Brody, Albuquerque, NM, April 15-18, 2009.

European Conference on Health Economics (ECHE), Presenter and Session Organizer, "Corporate Social Responsibility and the Economics of Drug Development for Neglected Diseases," Rome, Italy, July 23-26, 2008.

Western Social Science Association Annual Conference, "The Diffusion of Election Equipment between Presidential Election Years," Denver, Colorado, April 23-26, 2008.

Western Social Science Association Annual Conference, "Funding Pharmaceutical Innovation through Direct Tax Credits," Calgary, Alberta, Canada, April 13, 2007.

Western Social Science Association Annual Conference, Discussant "Economics of Finance," Calgary, Alberta, Canada, April 13, 2007.

International Health Economics Association Meetings, "Drugs & Taxes: Lower Prescription Drug Prices through Direct Tax Credits," Barcelona, Spain, July 11, 2005.

University of Michigan, Center for Medication Use, Policy and Economics, Conference on Innovation and Drug Reimportation: The Cost, The Value, The Trade-offs, "The Economic Fundamentals of the Pharmaceutical Industry," Washington, DC, April 18-20, 2004.

University of Michigan, Center for Medication Use, Policy and Economics, Conference on Innovation and Drug Reimportation: The Cost, The Value, The Trade-offs, Panel Discussion and Press Q&A, National Press Club, Washington, DC, April 20, 2004.

Northwestern University, International Industrial Organization Conference, "The Objective Function Matters: An Investigation of Competition in the Hospital Industry" joint work with Teresa Harrison, Chicago, IL, April 23-25, 2004.

University of Toronto, Leslie Dan Faculty of Pharmacy, in association with the Center for Medications Use, Policy & Economics, University of Michigan, Symposium on Cross-border Internet Pharmacy: Public Policy Implications, "Parallel Imports or Imposters: The Economics of Reimportation and Counterfeit Pharmaceuticals," Toronto, Ottawa, Canada, March 9, 2004.

University of Toulouse, Institut d'Economie Industrielle, Manufacture des Tabacs, Conference on Markets for Pharmaceuticals and the Health of Developing Nations, "Rx Roulette: Counterfeit Pharmaceuticals in Developing Nations," Toulouse, France, December 3-5, 2003.

University of Michigan, Center for Medication Use, Policy and Economics, Conference on Reimportation of Pharmaceuticals: Economic and Policy Implications, "Parallel Imports or Imposters: The Economics of Reimportation and Counterfeit Pharmaceuticals," Ann Arbor, MI, October 29-31, 2003.

Academy of Management Meetings, "Stemming the Flow of Counterfeit Pharmaceuticals: Where Should Enforcement Dollars Go?" Seattle, WA, August 2003.

Latin American Studies Association Meetings, "AIDS Policy and Pharmaceutical Patents: Brazil's Strategy to Safeguard Public Health," Dallas, TX, March 2003.

Southern Economics Association Meetings, "Monopolizing Blood and Other Joint Products," New Orleans, LA, November 2002.

Drexel University, COBA Research Forum, "Monopolization of Blood & Other Joint Products," Philadelphia, PA, February 11, 2002.

Latin American Studies Association Meetings, "The Brazilian Pharmaceutical Industry: TRIPs and Its Consequences," Washington, DC, September 2001.

Western Social Science Association Meetings, "Stripping the Wolf of his Sheep's Clothing: Anticounterfeiting Strategies for Multinational Pharmaceutical Firms," Reno, NV, April 2001.

Fifth Workshop on Challenges for Pharmaceutical Policies in the 21st Century, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Brussels, Belgium, January 2001.

Latin American Studies Association Meetings, "High Stakes & New Rules: An Examination of the Effects of the TRIPs Agreement & the Pharmaceutical Industry," Miami, Florida, March 2000

Drexel University, Department of Economics & International Business, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Philadelphia, PA, February 2000.

Middlebury College, Department of Economics, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Middlebury, VT, February 2000.

Occidental College, Department of Economics, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Los Angeles, CA, February 2000.

Rhodes College, Department of Economics, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Memphis, TN, February 2000.

U.S. General Accounting Office, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Washington, DC, February 2000.

United States Department of Agriculture, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Washington, DC, February 2000.

United States Federal Reserve Bank, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Washington, DC, February 2000.

Western Social Science Association Meetings, "Making Promises They Can't Keep? Developing Countries, the TRIPs Agreement, and Pharmaceutical Piracy," Ft. Worth, Texas, April 1999.

Workshop Leader, U.C. Berkeley, Graduate Student Instructor Teaching & Resource Center: Quantitative Workshop for the Social Sciences, January 1999, August 1998, August 1999.

Guest Lecturer, U.C. Berkeley, Department of Economics, Principles of Economics: March 1999. Lecture on unemployment for large introductory course (approximately 800 students).

Latin American Studies Association Meetings, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Chicago, Illinois, September 1998.

Western Social Science Association Meetings, "Product Piracy: The Sale of Counterfeit Pharmaceuticals in Developing Countries," Denver, Colorado, April 1998.

Western Social Science Association Meetings, "Counterfeit Pharmaceuticals in Developing Countries," Albuquerque, New Mexico, April 1997.

OTHER PRESENTATIONS

Manitou Springs Kiwanas Club, "China's currency appreciates: Are all our problems solved?" Manitou Springs, CO, 21 June 2010.

Colorado College, "Why Are We Afraid of China?" Fall Conference presentation with John Williams, Colorado Springs, CO, 28 August 2007.

Lake Forest College, "A Valentine for the Uninsured? President Bush's Health Insurance Proposal," panel with Dr. Richard Dye, Lake Forest, IL, 13 February 2007.

PhRMA Alliance Development Annual Meeting, "The Economics of Health Care and Its Impacts on Patient Access," Washington, DC, 26 April 2006.

FUNDED RESEARCH

"State pharmaceutical importation programmes: an analysis of the cost-effectiveness"

Partnership for Safe Medicines, San Francisco, California, October 2019.

"Incremental Innovation in the Pharmaceutical Industry"

Fraser Institute, Vancouver, BC, Canada, June 2014

"Strengthening Intellectual Property Protection for Pharmaceutical Innovation: What Canada Stands to Gain" •

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Macdonald-Laurier Institute, Ottawa, ON, Canada, December 2011

"Pharmaceutical Counterfeiting: The Role of Intellectual Property Rights in Developing Countries"

Pharmaceutical Industry Sponsored Research Grant, Ad Hoc Working Group on Pharmaceutical Economics, 2002.

CONSULTANCIES

Academic Expert

Crime Stoppers International Article on Counterfeit PPE during the COVID-19 Pandemic November 2020 https://spectator.us/gangs-billions-fake-medical-supplies-covid/

Academic Expert

Partnership for Safe Medicines Report on the Cost of Testing Imported Drugs into Safety November 2019 - December 2020

Academic Expert

Organization of Economic Cooperation and Development (OECD), Paris, France, 2015 Report and presentation on Illicit Trade in Counterfeit Medicines Agenda available at: http://www.oecd.org/gov/risk/tfcit-2015-agenda.pdf

Research Fellow

The Fraser Institute, Vancouver, BC, Canada, Fall 2013 – present Research on Bulk Pharmaceutical Purchase Agreements; Intellectual Property Rights and Trade Agreements

Academic Expert

PhRMA's Speaker Bureau Program, 2006 to present Presentations on Neglected Diseases, Pharmaceutical Innovation and Intellectual Property Rights

Academic Expert

The Fraser Institute, Vancouver, BC, Canada, Fall 2012 – Fall 2013 Research on Bulk Pharmaceutical Purchase Agreements; Intellectual Property Rights and Trade Agreements

Academic Expert

Pfizer, Inc., Summer 2012 Research on Anaphylaxis and tools to assist in quantifying the need for epinephrine autoinjectors

Academic Expert

Macdonald-Laurier Institute, Ottawa, ON, Canada, December 2011 "Intellectual Property Law and the Pharmaceutical Industry: An Analysis of the Canadian Framework"

Research Associate

The Cameron Institute, 2009-present

Research on the Effectiveness of Disease Management Programs in the Medicaid Population, joint work with Robert A. Freeman and D. Wayne Taylor, May 2011

Academic Expert

OECD (Organization for Economic Cooperation and Development, Paris France), 2010 "Policy Complements to the Strengthening of IPRs in Brazil" coauthored with Dan Johnson

Academic Expert

National Peace Foundation, 2009

Three White Papers on Environmental Innovation & Green Technology authored with Dan Johnson On July 13, 2009 Dan presented this work in Geneva, Switzerland at WIPO's Conference on Intellectual Property and Public Policy Issues

Academic Expert

*Ph*RMA sponsored Academic Roundtable on Current Issues in the Pharmaceutical Industry, 2009 Organizer, Moderator and Emcee for roundtable event bringing industry and academics together

Consultant

World Health Strategies, 2007 to present Comment on WHO's Intergovernmental Working Group Draft Strategy

Consultant

PhRMA, Pharmaceutical Research and Manufacturers of America, 2003 to present Testimony and Research on Pharmaceutical Drug Reimportation and Counterfeiting

Consultant

Sanofi-Aventis Pharmaceuticals, 2006 Research on Authorized Generics

Consultant

The Madison Group, 2004 Research on Pharmaceuticals and International Counterfeiting for Merck Pharmaceuticals

Consultant

AstraZeneca LP Pharmaceuticals, 2002, 2003, 2004 Research on Pharmaceuticals, Counterfeiting, and Issues in International Trade

Consultant

The World Bank, 1999, 2000, 2001, 2003 Research with Jillian Cohen on Transparency and Corruption in the Pharmaceutical Sector

Consultant

Reconnaissance International, 2002 Research on Pharmaceutical Counterfeiting

Pharmaceutical Industry Sponsored Research Grant Ad Hoc Working Group on Pharmaceutical Economics, 2002

BOOK, JOURNAL, PROPOSAL REVIEWING & EDITORIAL WORK

Expert Grant Assessment Reviewer

• Social Sciences and Humanities Research Council of Canada, 2017-present.

Contributing Author

 <u>Intermediate Microeconomics</u>, Levitt & Goolsbee text in development, Worth Publishing, 2009-2013. Writing appendices and sample problems/solutions for text in development.

Reviewer

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Editorial Advisory Board

• Research in Social & Administrative Pharmacy, 2007 – present.

Editorial Board

• Journal of Pharmaceutical Finance, Economics & Policy, 2007.

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Contributing Editor

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- Blog post to IPWatchDog, 9 July 2014.
- http://www.ipwatchdog.com/2014/07/09/patents-arent-enough-data-exclusivity-for-biologicmedicines/id=50318/

"The Case for Incremental Innovation: The Importance of Protecting Follow-on Pharmaceutical Discoveries"

- Blog post to IPWatchDog, 23 June 2014.
- http://www.ipwatchdog.com/2014/06/23/the-case-for-incremental-innovation/id=50155/

"Biopharmaceutical R&D: Investments in Innovation, Jobs, and Economic Development"

- Blog post to PhRMA's Catalyst web forum, 20 June 2014.
- http://www.phrma.org/catalyst/investments-in-innovation-jobs-and-economic-development

"Biopharmaceutical R&D: Investments in Innovation, Jobs, and Economic Development"

- Blog post to Patients and Patents web forum, 13 June 2014.
- http://www.patientsandpatents.org/blog/8

"The Economic Case for Strong Intellectual Property"

- Blog post to IPWatchDog, 2 May 2014.
- http://www.ipwatchdog.com/2014/05/02/the-economic-case-for-strong-protection-for-intellectualproperty/id=49376/

"Compulsory Licenses Won't Solve a Healthcare Crisis"

- Blog post to IPWatchDog, 1 April 2014.
- http://www.ipwatchdog.com/2014/04/01/compulsory-licenses-wont-solve-a-healthcarecrisis/id=48827/

"The Future of Global Health Depends on Strong IPRs"

- Blog post to IPWatchDog, 16 February 2014.
- http://www.ipwatchdog.com/2014/02/16/the-future-of-global-health-depends-on-strongiprs/id=48138/

"Protecting Innovation is not 'Satanic Genocide': Intellectual Property Policy in South Africa"

- Blog post to IPWatchDog, 22 January 2014.
- http://www.ipwatchdog.com/2014/01/22/protecting-innovation-is-not-satanic-genocide/id=47599/

"Intellectual property policy in India: sacrificing the future and undermining health progress"

- Op Ed Ward Health Advocacy, 8 January 2014.
- http://www.whadvocacy.com/articles/intellectual-property-policy-india-sacrificing-future-and-undermining-health-progress

"Intellectual property policy in India: Sacrificing the future and undermining health progress"

- Financial Express, 6 January 2014.
- http://pharma.financialexpress.com/sections/management/3196-time-for-an-alternative-patent-system

"In Medicine, Every Little Innovation Matters"

- The Hindu Business Line, 4 December 2013.
- http://www.thehindubusinessline.com/opinion/in-medicine-every-little-innovationmatters/article5422132.ece

"Biologics: Protecting Data Exclusivity, Protecting the Future of Medicine"

- Blog post to IPWatchDog, 10 November 2013.
- http://www.ipwatchdog.com/2013/11/10/protecting-data-exclusivity-protecting-the-future-ofmedicine/id=46136/

"The Importance of Protecting Incremental, Improvement Innovation"

- Blog post to IPWatchDog, 17 October 2013.
- http://www.ipwatchdog.com/2013/10/17/the-importance-of-protecting-incremental-improvementinnovation/id=45725/

"Patent Law 2.0: Not the Answer the Developing World Needs"

- Blog post to IPWatchDog, 18 August 2013.
- http://www.ipwatchdog.com/2013/08/18/patent-law-2-0-not-the-answer-the-developing-worldneeds/id=44699/

"Implications of the Januvia patent lawsuit in India"

- Blog post to Apothecurry, 23 July 2013.
- http://apothecurry.wordpress.com/2013/07/23/guest-column-implications-of-the-januvia-patent-lawsuit-in-india/#more-1262

"Bulk Buying Pharmaceuticals Isn't All It's Cracked Up to Be"

- Joint work with Nadeem Esmail, The Fraser Institute
- The Huffington Post Canada, May 24, 2013
- http://www.huffingtonpost.ca/nadeem-esmail/bulk-buying-pharma_b_3331330.html

"Are Pharmaceutical Patents a Barrier to Access to Medicines? The Importance of Economic Development and Growth"

- Blog post to IPWatchDog, 21 May 2013.
- http://www.ipwatchdog.com/2013/05/21/are-pharmaceutical-patents-a-barrier/id=40664/

"Economics of Access to Medicines: The Challenges of Pharmaceutical Patents, Innovation and Access for Global Health"

- Blog post to IPWatchDog, 6 March 2013.
- http://www.ipwatchdog.com/2013/03/06/economics-of-access-to-medicines-the-challenges-of-pharmaceutical-patents-innovation-and-access-for-global-health/id=36614/

"Indian patent rulings and impact on emerging economies"

- Blog post to Apothecurry, 19 February 2013.
- http://apothecurry.wordpress.com/2013/02/19/guest-column-indian-patent-rulings-and-impact-onemerging-economies/#more-1087

"Indian patent rulings and the IPR ecosystem"

- Blog post to Apothecurry, 6 February 2013.
- http://apothecurry.wordpress.com/2013/02/06/guest-column-indian-patent-rulings-and-the-iprecosystem/#more-1038

"Indian patent rulings and pharma strategies"

- Blog post to Apothecurry, 28 January 2013.
- http://apothecurry.wordpress.com/2013/01/28/guest-column-indian-patent-rulings-and-pharmastrategies/#more-1031

"What Pegasys says about IPR in India"

- Blog post to Apothecurry, 7 November 2012.
- http://apothecurry.wordpress.com/2012/11/07/guest-column-what-pegasys-says-about-ipr-inindia/#more-903

"Is 'evergreening' of drug patents all bad?"

- Blog post to Apothecurry, 23 October 2012.
- http://apothecurry.wordpress.com/2012/10/23/guest-post-is-evergreening-of-drug-patents-all-bad/

"Global R&D Convention: Pipe Dream?"

- Blog post to Apothecurry, 11 September 2012.
- http://apothecurry.wordpress.com/2012/09/11/global-rd-convention-pipe-dream/

"Are 'prizes' to reward drug R&D a viable alternative to patents?"

- Blog post to Apothecurry, 13 August 2012.
- http://apothecurry.wordpress.com/2012/08/13/guest-column-are-prizes-to-reward-drug-rd-a-viablealternative-to-patents/#more-771

"Beyond Glivec: Balancing Innovation and Public Health"

- Blog post to Apothecurry, 20 July 2012.
- http://apothecurry.wordpress.com/2012/07/20/beyond-glivec-balancing-innovation-and-publichealth/

"Drug-Resistant Tuberculosis: The Emergence of a Global Threat"

- *World Health Advocacy* blog, 20 June 2012
- http://www.whadvocacy.com/articles/drug-resistant-tuberculosis-emergence-global-threat

"International trade focus on health policy could boost Colorado economy"

- *Health Policy Solutions*, 29 May 2012
- http://www.healthpolicysolutions.org/2012/05/29/opinion-international-trade-focus-on-health-policy-could-boost-colorado-economy/

"Compulsory Licensing Threatens Pharmaceutical Innovation"

- *World Health Advocacy* blog, 16 March 2012
- http://www.whadvocacy.com/articles/compulsory-licensing-threatens-pharmaceutical-innovation

"Investing in BioScience Innovation"

- Denver Post, 22 October 2010
- http://www.denverpost.com/guestcommentary/ci_16399670

"How Congress's Plans for Medicare May be Harmful For Women"

- Chicago Tribune, 23 October 2007
- http://archives.chicagotribune.com/2007/jan/23/health/chi-0701230146jan23

"Compulsory Drug Licensing Disastrous"

- Denver Post, Guest Commentary (online edition), 19 March 2008
- http://www.denverpost.com/guestcommentary/ci_8616902

CONTINUING PROFESSIONAL EDUCATION ACTIVITIES AND WORKSHOPS

Technology, Innovation, and Intellectual Property program of the Classical Liberal Institute at the NYU School of Law, Invited Participant, Innovators, Firms, and Markets: The Organizational Logic of Intellectual Property, 14 January 2020.

UK Commission on Intellectual Property Rights, Invited Participant, How Intellectual Property Rights Could Work Better for Developing Countries and Poor People, at the Royal Society, London, England, February 21-22, 2002.

Pharmaceutical Economic and Policy Council Meeting, Pfizer, Miami, FL, 21-23 April 2010.

"Global Health and the Liberal Arts Curriculum," Beloit College, Beloit, WI, 12-14 March 2010.

Teaching Innovations Program in Economics, Case Mode, completed March 2009.

Teaching Innovations Program in Economics, Discussion Module, completed November 2008.

Inter-Industry Import Safety Summit, Washington, DC, July 9, 2008.

Teaching Innovations Program in Economics, May 2008 meeting, San Antonio, TX, May 30-June 1, 2008

Pharmaceutical Economic and Policy Council Meeting, Pfizer, Chicago, IL, January 7-8, 2007.

Pharmaceutical Economic and Policy Council Meeting, Pfizer, Boston, MA, January 7-8, 2006.

Pharmaceutical Economic and Policy Council Meeting, Pfizer, Philadelphia, PA, January 9-10, 2005.

Pharmaceutical Leadership Forum, MedAdNews Conferences, Washington, DC, November 15-16, 2004.

Product Surety Working Groups for Foods, Pharmaceuticals, and Biologics, US Food and Drug Administration and Reconnaissance International, Washington, DC (January 2003), Chicago, IL (June 2003), Washington, DC (August 2003).

Global Forum on Pharmaceutical Anticounterfeiting, World Health Organization and Reconnaissance International, Geneva, Switzerland, September 22-25, 2002.

Wharton Technology Miniconference, Wharton School, Mack Center for Technological Innovation and Management Department, April 12-13, 2002.

UK Commission on Intellectual Property Rights, Invited Participant, How Intellectual Property Rights Could Work Better for Developing Countries and Poor People, at the Royal Society, London, England, February 21-22, 2002.

Northeast Political Science Association and International Studies Association, Northeast Conference, 33rd Annual Meeting, International Political Economy sessions, Philadelphia, Pennsylvania, November 8-10, 2001.

Wharton Applied Economics Seminar, Fall 2001, Spring 2002.

Inter-American Development Bank Seminar, "Corruption that Compromises Health: Studies of Public Hospitals in Latin America," May 24, 2001.

Wharton Technology Miniconference, Mack Center for Technological Innovation and the Management Department, March 30-31, 2001.

PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

Elected Board Member, Western Social Science Association (2012 - 2015)

Affiliations:American Economic Association
Industrial Organization Society
International Health Economics Association
American Law and Economics Association
American Society of Law, Medicine & Ethics
Latin American Studies Association
Western Social Science Association
Western Economic Association

TEACHING ACTIVITY TEACHING EXPERIENCE

Associate Professor, Department of Economics & Business, the Colorado College, Colorado Springs, Colorado, Spring 2013- present

Assistant Professor, Department of Economics & Business, The Colorado College, Colorado Springs, Colorado, Fall 2007 – Spring 2013

Assistant Professor, Department of Economics & Business, Lake Forest College, Lake Forest, Illinois, 2006 – 2007.

Assistant Professor, Department of Economics and International Business, LeBow College of Business, Drexel University, Philadelphia, Pennsylvania, 2000 – 2006.

COURSES AT COLORADO COLLEGE

Undergraduate Courses (New Course Numbers)

- Economics 150 (EC100) Principles of Economics (2 blocks, Micro & Macro)
- Economics 151 (EC101) Principles of Microeconomics
- Economics 152 (EC102) Principles of Macroeconomics
- Economics 207 (EC301) Intermediate Microeconomic Theory
- Economics 306 (EC344) Industrial Organization
- Economics 342 (EC347) Economics of International Trade
- Economics 344 (EC377) Economics of International Finance

- Economics 375/PS 375 Introduction to International Political Economy
- Economics 390 Economic Policymaking in Latin America
- Economics 390 (EC385) Global Public Health and Economic Development
- Economics 499 Senior Thesis in Economics

Thesis Students Supervised

- Andrew Edds, 2020-2021
- Hannah Kates, 2020-2021
- Ava Kazemi, 2020-2021
- Hannah Kip, 2020-2021
- Nick Schulkin, 2020-2021
- Claire Altieri, 2019-2020 (2020 Robert Rubin Mathematical Economics Thesis Award)
- Zach Levy, 2019-2020
- Eliana Clayton, 2019-2020
- Chris Maurice, 2019-2020
- Rob Garner, 2019-2020
- Johannes Mansson, 2018-2019
- Jacob Miller, 2018-2019
- Ella Tulchinsky, 2018-2019
- Cassidy Lam, 2018-2019
- Patrick Mahoney, 2018-2019
- Jennifer Roca, 2017-2018
- Robbie Paul, 2017-2018
- Morgan Smith, 2017-2018
- Justin Park, 2017-2018
- Justin Nguyen, 2017-2018
- Joe Walton, 2017-2018
- Mayss Al Alami, 2016-2017
- Bradley Hale, 2016-2017
- Madeline Polese, 2016-2017
- Leah Di Filippo, 2016-2017
- Toan Luong, 2016-2017
- Margaret Bursch, 2015-2016
- Cory Wake, 2015-2016
- Philip Ward, 2015-2016
- Bradley Green, 2015-2016
- Liz Doernhoefer, 2015-2016
- Venkatasai Ganesh Karapakul, 2015-2016 (2016 Robin Satterwhite Thesis Award)
- Chuin Chieh Ong, 2015-2016
- Andrew Visch, 2014-2015
- Patrick Lynch, 2014-2015
- Julia Lawton, 2014-2015 (2015 Outstanding Thesis Award)
- Felix Pronove, 2014-2015
- Hanna Berglund, 2012-2013
- Monica Mueller, 2012-2013
- Andrew Hamburg, 2012-2013
- Elizabeth Asher, 2012-2013
- Tyler Thorne, 2012-2013
- Timothy Hall, 2011-2012
- Devin Nadar, 2011-2012 (2012 Outstanding Thesis Award)
- Benjamin Snow, 2011-2012
- Diego Domenech, 2011-2012
- Travis Boccard, 2011-2012

- Russ Pagan, 2011-2012
- Alex Stiller-Shulman, 2009-2010
- Addison DeBoer, 2009-2010
- Ian Rivero, 2009-2010
- Annie Muire, 2009-2010
- Kristen Friedheim, 2009-2010
- Alex Brody, 2008-2009
- Ben Beadle-Ryby, 2008-2009
- Dillon Baer, 2008-2009 (2009 Outstanding Thesis Award)
- Jacob Dickson, 2008-2009
- Cassie Marques, 2007-2008
- John Linnemann, 2007-2008
- Jessica Beinlich, 2007-2008
- Amanda Howard, 2007-2008
- Brendan Hannah, 2007-2008

Independent Studies Supervised

- Edmund Pendleton, Spring 2019 Advanced Topics in International Trade: The Cuban Economy: 30 Years of Reform and Current Performance
- Jacob Dickson, Fall 2008
 Advanced Topics in Economics: Contemporary Issues in Healthcare Supply Chains
- Alex Brody, Spring 2008 Advanced Topics in International Trade: The Role of Intellectual Property Rights in International Markets for Healthcare

Additional Teaching Contribution

• Economic Theory I Labs: development and implementation of a series of eight supplemental labs for the new Economic Theory I (Econ 201) course. I wrote three of the labs and piloted the program in my 2016 Block 1 course.

STUDENT RESEARCH COLLABORATION AT COLORADO COLLEGE

Dean's Summer Research Grant: Summer 2020, Mathias Walder

- "The Evergreening Myth"
- Dean's Summer Research Grant: Summer 2018, Ella Tulchinsky

• "The Patent Paradox"

Dean's Summer Research Grant: Summer 2017, John Higham

• "Secondary Patents in the Pharmaceutical Industry: Extending Exclusivity or Protecting Innovation?"

Dean's Summer Research Grant: Summer 2016, Aabhusan Khadku

- "Secondary Patents in the Pharmaceutical Industry: Extending Exclusivity or Protecting Innovation?"
- Dean's Faculty-Student Summer Collaboration Grant: Summer 2011, Antonio Skarica
 - "The Importance of National Identity to Trade Patterns: Post-conflict Trade in Bosnia and Herzegovina"

Dean's Faculty-Student Summer Collaboration Grant: Summer 2010, Phoenix Van Wagoner

"The Importance of Intellectual Property Rights to Growth: The relationship between Patents and Total Factor Productivity in the United States"

Dean's Faculty-Student Summer Collaboration Grant: Summer 2009, Alex Stiller-Shulman

• "Economic Geography Applications Using GIS and Econometrics"

Dean's Faculty-Student Summer Collaboration Grant: Summer 2008, Alex Brody

• "Antiretroviral Drug Patents: The Relationship Between Socioeconomic Indicators and the Incentive to Patent"

COURSES AT LAKE FOREST COLLEGE

Undergraduate Courses

- Economics 110 Principles of Economics
- Economics 382 Economic Policymaking in Latin America
- Economics 482 The Economics of the Global Pharmaceutical Industry

COURSES AT DREXEL UNIVERSITY

Undergraduate Courses

- Economics 201 Economics I, Microeconomics
- Economics 211 Principles of Economics I, Microeconomics
- International Business 334 International Trade
- International Business 338 Regional Studies in Economic Policymaking, Latin America

Executive MBA Courses for Johnson & Johnson Ortho McNeil

• Economics 698 – Pharmacoeconomics

Independent Studies Supervised

- INTB 449 001 Economic Analysis of Latin American Policymaking (Fall 2005, Sandra Alfonzo)
- INTB 449 001 International Economics and Technology (Summer 2004, Litzy Umana)
- INTB 449 001 Intellectual Property Rights and International Trade (Spring 2004, Candace M. Madera)
- INTB 449 001 Issues in Health Economics (Winter 2004, Jason Taylor)
- INTB 449 001 International Trade Policy (Winter 2004, Brandon Baldassari)
- INTB 449 001 Issues in Health Economics (Fall 2003, Paul M. Wong)

NEW COURSES DEVELOPED

Global Public Health and Economic Development (Colorado College)
Economic Policy in Latin America (Colorado College)
Economics of Industrial Organization (Colorado College)
The Economics of the Global Pharmaceutical Industry (Lake Forest College)
Economic Policymaking in Latin America (Lake Forest College)
Regional Studies in Economic Policy & International Business: The Latin American Experience (Drexel)
PharmacoEconomics (Drexel)

SERVICE ACTIVITY AT COLORADO COLLEGE DEPARTMENTAL

- Work with the donor to secure \$100,000 gift to the Department from Robert R. Rubin to endow two prizes for graduating seniors
- Economics Hiring Committee (2020-2021)
- BESoc (Business, Economics and Society Major) Committee (2020-2021)
- Study Abroad Adviser, Department of Economics (2020-2021)
- Department Chair (2017-2020)
- Schlessman Executive-in-Residence Committee Member (2018-2020)
- Hiring Committee for Department Paraprof (2018-2019), (2019-2020)
- Field Trip Sub-committee (2016-2017)

- Academic Fair, Open House for Newly Admitted Students, 7 April 2016
- Associate Chair (July 2012 June 2013), (July 2014 July 2015)
- Admissions Liaison (2015-2016)
- Advisor for Graduate School in Economics (2015-2016)
- Economics Hiring Committee, Chair, (2014-2015)
- Adviser, Economics Student Advisory Board (2012-2013, 2014-2015)
- Coordinator, Schlessman Fund (July 2012 June 2013, July 2014 present)
- Crown Faculty Center Series for New Faculty, Block 2 Session: So You Thought You Had 18 Days, Workshop presentation on Syllabus Design and Learning Outcomes, 9 October 2012.
- H.Chase Stone Lecturer Coordinator (2011-2012)
- Presentation to the Board of Trustees, "Engaging Students in Faculty Research," Colorado Springs, CO, 24 February 2012.
- IPE Presentations Committee (2011-2012)
- IPE Catalog Revisions Team (2011-2012)
- Oral Assessment Committee, Fall 2011
- Guest speaker in EC110 The Economic Novel, Fall 2010
 "Patents and Access to Medicines in Developing Countries: An Economic Perspective"
- Hiring committee for Technical Statistical Coordinator (Econometrics lab) May 2010
- International Political Economy Liaison (2009 present)
- Department Committee to Research and Apply for a New Tenure Track Faculty position
- Open House for Newly Admitted Students, 7 April 2010
- Organizing Faculty, Coming In Lunch (2007 2010)
- Senior Thesis Award Committee, 2008
- Admissions Committee for the Department (2008 2010)
- Economics Hiring Committee (2007-2008), (2009-2010)
- Economics Curriculum Review (Fall 2007)

COLLEGE

- Crown Goodman Scholarship Committee, 2021.
- Chair of the Committee on Admissions and Financial Aid (2020-2021)
- Fall Open House, Taught a Mock Class, 5 September 2020.
- Research Panel during Summer Open Campus, 20 July 2018.
- Faculty Adviser, Colorado College Trading Team, Bloomberg Trading Competition (2018)
- College Advancement Committee, Social Science Faculty Liaison (2016-2017)
- Mellon Grant Trip Participant (2014-2015)
 - implementing the vision for the Center for Immersive Learning and Engaged Teaching
 - visit to Hobart and William Smith Colleges, Geneva, NY
- Colorado College Assessment Committee (2014-2015)
- New Faculty Mentor to Elizabeth Coggins (2014-2015)
- United Way Reviewer for "Built Environment; Economy" (May 2013)
- Colorado College Transition Fellowship Committee, April 2013
- Panelist, Strategic Planning Spring Retreat, January 17-18, 2013
- Committee to select Colorado College Health Plan, January 14, 2013
- Strategic Planning Committee, Extending Our Reach (2012 2013)
- New Faculty Forum, Panelist for Teaching on the Block Plan Session, 28 August 2012
- Budget Committee (2011-2012)
- Hiring Committee, Director of Outdoor Education (2011-2012)
- Faculty Host, Sophomore-Faculty Dinner, 3 May 2011
- Faculty Representative, Colorado College Alumni Association Board member (AAB) dinner during the annual Alumni Leadership Forum, 8 April 2011
- Faculty Representative, lunch for comment, Learning Commons External Review, 15 March 2011
- LGBTQQI Ally/Advocate: campus-wide workshop facilitator, trained September 2010 for the position
- Host to potential Colorado College donor, Bob Shirilla, 7 September 2010
- CSURF ~ Colorado Springs Undergraduate Research Forum (Spring 2010)
- Learning Commons Committee (2009-2010)

- Colorado College Steering Committee, Session Moderator (2009-2010)
- Hiring Committee, Department of Mathematics, Cognate & Women's Representative (2009-2010)
- Faculty Panelist, New Student Orientation (August 22, 2009)
- "Top Ten List of What Not to Do In College"
- International Affairs Option Advisor (2007 present)
- Dean's Advisory Committee (2008-2009)
- Academic Events Committee, ad hoc member (2008-2009)
- Faculty Luncheon (October 14, 2008)
 - "Drugs for the Poor: Examining the Barriers to Access in Developing Countries"
- Fall Conference Presentation with John Williams (August 28, 2007) "Why are we afraid of China?"

TO THE DISCIPLINE

- National Science Foundation, Grant Reviewer, 2020-2021
- Western Social Science Association (WSSA), Vice President & Secretary, 2015-2016
- International Health Economics Association (iHEA), iHEA Scientific Committee, 2015
- Western Social Science Association (WSSA), Elected Board Member, 2012-2015
- WSSA, Finance Subcommittee, Author of Investment Policy Statement, 2014
- WSSA, Undergraduate and Graduate Student Paper Competition Judge, 2013

SERVICE ACTIVITY AT LAKE FOREST COLLEGE

DEPARTMENTAL

Library Fund Coordinator for the Department of Economics (2006-2007) Co-Organizer, Career Exploration Night for Students (2006) Co-Organizer, Curriculum Evaluation: Principles of Economics (2007)

COLLEGE

Policy Forum: "A Valentine for the Uninsured?" joint with Richard Dye (13 February 2007) Faculty Women's Caucus

SERVICE ACTIVITY AT DREXEL UNIVERSITY

DEPARTMENTAL

Organizer and Coordinator, Economic Research Workshop (2002 – 2006) Department of Economics, Search Committee (2003-2004, 2002-2003, 2001-2002) Extensive Role in Candidates' On-campus visits (Winter 2003, Winter 2002) International Business Day, Planning Committee (2001) Drexel Open House (November 2001, November 2000)

COLLEGE

Organizer and Moderator, 9th Annual International Business Symposium (April 2005) Faculty Advisor, Phi Beta Lambda (2005 – 2006) TASS: Academic Standing Committee (2000 – 2006) Invited speaker, Drexel Center for Academic Excellence, LeBow College Lecture (Summer 2004) Library Advisory Committee (2000 – 2003) Invited speaker, Foundations of Business II, Honors Section, BUSN 102 (Winter 2003)

UNIVERSITY

Faculty Advisory Committee, Drexel Learning Center (2004 – 2006) Faculty Senate, Alternate (2000 – 2004) Invited speaker, "Business Responsibility & Poverty" Drexel Students for Social Justice (January 2003) AJ Drexel Scholars' Day (2002, 2001)

REFERENCES

Provided upon Request