

## Peter Debaere

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<http://faculty.darden.virginia.edu/debaerep/index.htm>

### PERSONAL

Born, September 24, 1965.  
Belgian and U.S. citizen  
Languages (fluent): Flemish (native), English, German and French.  
Married, two children.

### ACADEMIC POSITIONS

E. Thayer Bigelow Research Chair in Business Administration, Darden Business School, since 2020.

Full Professor of Business Administration since 2017, Darden Business School

Transformational Faculty Award, 2016, 2019.

Runner-up Transformational Faculty, 2017,

Friend of the Faculty Nomination, 2017.

Favorite Professor for Executive MBAs, Poets & Quants, 2017.

Multi-year Outstanding Teacher Award (top 10 %), 2015, 2019.

Dean's list, Outstanding Teacher Award (more than 10 times)

Nominated Outstanding Faculty Award (2019,2020).

Area Head Global Economies and Markets, 2018 -

Executive Director, Global Water Initiative, 2017 (2015) -

Courtesy Appointment, Economics Department, Univ. of Virginia, 2013 - present

Leadership in Academic Matters Fellow, 2011, University of Virginia – LAM

is “a means of developing, inspiring, and rewarding faculty who have demonstrated leadership characteristics and future potential”.

Affiliated Faculty, Institute for Business and Society, Yamuna Project, 2017-present.

(Founding) member of Advisory Board, Center for German Studies, UVA, 2008- present.

Member Advisory Board, European Studies, UVA, 2018 – now.

Affiliated Faculty, European Studies Program, 2018- present.

Previously:

Associate Professor of Business Administration, 2006-2017 (tenure 2010)

Assistant Professor, Univ. of Texas, Austin, Fall 1998 – Spring 2006.

CEPR, Research Affiliate, London, 2005-2015.

### VISITING POSITIONS/CONSULTANT

Sustainable Waters Consulting, Fallowing projects, Spring 2018.

The Nature Conservancy Consulting, Water Trusts, Spring 2016.

The Nature Conservancy Consulting, Water and Prosperity, May-Sept. 2015.

Haas Business School, Univ. of California at Berkeley, Jan – June 2012.

Institute for the World Economy, Kiel, Germany July 2008.

Christian-Albrechts University, Kiel, Germany, June 2008.

Leverhulme Center for Globalization, University of Nottingham, U.K. April 2007.

Univ. of Colorado, Boulder, March 2004.

Federal Reserve Bank of Minneapolis, Minnesota, Summer 2002.

International Monetary Fund, Fiscal Affairs Department, Washington DC, Summer 1996.

Univ. of Leuven, Belgium, Summer 1995.  
Institut der deutschen Wirtschaft, Cologne, Germany, Fall 1992-Winter 1993.

## EDUCATION

Ph.D. in Economics	University of Michigan	1993- 1998
MA in Economics	University of Michigan	1993- 1995
BA in Economics (summa cum laude)	Leuven, Belgium	1988- 1992
DAAD Student (exchange student in Germany)	Univ. of Cologne, Germany	1987- 1988
BA in German Literature	Leuven, Belgium	1983- 1987
Spec. BA in Philosophy	Leuven, Belgium	1984- 1987

Thesis Advisors at Univ. of Michigan: Prof. Alan Deardorff, Prof. Robert Stern, Prof. Matt Shapiro, Prof. David Weinstein.

## TEACHING

### On Water:

Global Economics of Water, Second Year Elective MBA Program, Darden, UVA, spring 2014, 2 sections in Fall 2014, 2 sections in Fall 2015, Spring 2017, Spring 2018, Fall 2018- now.

A course for MBA students that I designed, focusing on the role of water in the global and local economy, the nature of water (from an economic perspective), the link with food and energy, and the relevance of water for firms.

Seminar, Water Markets, School of Architecture/Environmental Science,

UVA, Spring 2013. Interdisciplinary seminar for grad students, co-taught with Brian Richter (Nature Conservancy) on all aspects with water markets, with the aim of writing a policy paper on water markets (published in *Water Policy*).

Water and Sustainability, School of Architecture/Environmental Science, UVA, Fall

2012, co-taught with Brian Richter (Nature Conservancy) and Paolo D’Odorico (Environmental Science): multi-disciplinary introduction to water and sustainability (water markets, dams, river flow, virtual water, Bay Game)

Diplomacy Lab (with Brian Richter, Paolo D’Odorico), Water Security, State Department, Washington D.C., Fall 2014, “Hidden Water Wars.”

### On International Economics

First Year Global Economies and Markets, MBA program, Darden, UVA, 2006- 2014.

Open Economy Macro Course for MBA’s, built around the Mundell-Fleming Model, with extensions on Balance of Payment Crises, Economic Growth, and Governance (externalities and cap and trade, trade policy, financial regulation)

Managing International Trade and Investment, Second Year Elective MBA Program,

Darden, UVA, 2009-10, 2018. From 2019 onwards, First Year Elective. A course for MBA students designed to provide a framework that places companies as part of the global economy. Against background of international trade theories, and theories of the multinational, different modes of entry into (export, affiliates, etc.) are investigated, and the interaction between firm, sector and country characteristics is explored.

Pre-matriculation for MBA students, Darden, UVA, 2007-08.

**Executive Education:**

*First Year Global Economies and Markets* in Executive MBA, Darden, Fall 2014 – present.  
*Understanding Global Markets* in Executive MBA, Darden, Fall 2016 – 2017.  
*Business Essentials* for EMBA in Executive MBA, Darden, Fall 2016 – present.  
*China Visa Program*, Summer 2011, 2012.  
*Verisk Program* (Big Data Center), Fall 2014, Spring & Fall 2015, Fall 2016.  
*Guizhou Province Program* (UVA), Spring 2015.  
*Rolls Royce Program* (Indonesia), Fall 2016.  
*International Leadership Development Program* (Federal Executive Institute), Fall 2019.

**Outside Darden:**

Economics for the Global Economy, Berkeley-Haas, EWMBA program, Spring 2012.  
International Trade and Investment, Mini PhD course, Kiel University, Germany. 2008.  
International Trade and Investment, Core PhD course, Univ. of Texas, 1998-2006.  
International Trade, Topics PhD course, Univ. of Texas, 1998-2006.  
International Finance, Undergraduate, Univ. of Texas, 2002-2006.  
International Trade, Undergraduate, Univ. of Texas, 1998- 2006.

**RESEARCH**Working papers

“Choosing between Protectionism and Free Trade in an Uncertain World,” (with Gerald Willmann, Toni Glaser) Working paper, 2016.

“Outsourcing vs. Integration in the Mutual Fund Industry: The Puzzle of Low Returns” (with Richard Evans), 2015 - earlier version CEPR Discussion Paper 10599.

Work in progress

Water Quality in the United States (with Teresa Culver and Jay Shimshack)

The promise of Water markets: Australia’s Murray Darling Basin (with Tianshu Li)

Refereed Publications & Book Chapters

“Crop-specific exposure to extreme temperature and wetness for the globe for the last half century,” *Environmental Research Letters*, (with Nicole Jackson, Megan Konar and Justin Sheffield), *Environmental Research Letters*, revise-resubmit.

“How Private Companies and Private Investment Can Combat Water Scarcity: The Economics” (with Andrew Kapral), *Water Security*, revise-resubmit.

“The Effects of Water Markets: Evidence from the Rio Grande” (with Tianshu Li), 2020, *Advances in Water Resources*, July.

“Beef production is leading contributor to water scarcity and fish imperilment,” with B.

Richter, N. Bartak, P. Caldwell, A. Hoekstra, T. Li, L. Marston, R. McManamay, M. Mekommen, B. Ruddell, R. Rushforth, and T. Troy), 2020, *Nature Sustainability*.

Media: National Geographic, NPR, The Guardian, Science Daily, Daily Mail, GWI Blog, The Western Producer, MSN, Newswise, YahooNews, Salt Lake Tribune, Circle of Blue, Ideas to Action.

“Water Markets’ Promise and Limits in a Changing World,” in Distefano, T., *Water Resources and Economic Growth*, Elsevier, 2020.

“Probabilistic Global Maps of Crop-specific Areas from 1961 to 2014,” (With Jackson, N., Megan Konar, Lyndon Estes) in *Environmental Research Letters*, 2019, september.

“Trade Openness and the Nutrient Use of Nations,” (with Qian Dang, Megan Konar) in *Environmental Research Letters*, 2018, 13, 12416.

“The Economics of Water: A Programmatic Outlook,” in Alday, I. and Pankaj Gupta (editors), 2018, *Yamuna River Project*, New Delhi Urban Ecology, University of Virginia, p. 52 -56.

“Decomposing U.S Water Withdrawal since 1950 (with Amanda Kuerzendoerfer), *Journal of the Association of Environmental and Resource Economists (JAERE)*, March 2017, 155-196. CEPR Discussion Paper 10573.

Media: Vox CEPR, GWI Blog, Ideas to Action

“Water Markets as a Response to Scarcity” (with Brian Richter, Kyle Davis, Melissa Duvall, Jessica Gephart, Clark O’Bannon, Carolyn Pelnik, Emily Maynard Powell, and Ty Smith), *Water Policy*, 2014.

Media: Chicago Policy Review

“The Global Economics of Water: Is Water a Source of Comparative Advantage?”, *American Economic Journal: Applied Economics*, 2014, April, p. P. 32-48  
longer version CEPR Working Paper 9030.

Media: Bloomberg, Logistics, Darden Report, NPR (91.1 FM WTJU), CEPR Vox, American Economic Association Research Highlights, cited in graduate textbook, Griffin 2016, *Water Resource Economics*, MIT Press, World Water Forum.

<https://www.aeaweb.org/research/can-international-trade-help-alleviate-water-scarcity>

“Language, Ethnicity and Intra Firm Trade,”(with Hongshik Lee and Joon Lee), CEPR Working Paper 9029, *Journal of Development Economics*.2013.

“Greasing the Wheels of International Commerce: Market Thickness vs. International Offshoring,” (with Holger Goerg and Horst Raff) *Canadian Journal of Economics*, 2013.

“International Trade and the Environment: Does Globalization Create Havens of Pollution?”, In Achilles, M. and D. Elzey (ed.), *Sustainability in Transatlantic Perspective: A*

*Multidisciplinary Approach. Energy, Climate and the Environment. September 2013.*

“What determines the Extensive Margin of Trade?” (with Salah Mostashari) in: Robert M. Stern (ed.), 2012, Quantitative Analysis of Newly Evolving Patterns of International Trade: Fragmentation; Offshoring of Activities; and Vertical Intra-Industry Trade. *World Scientific Studies in International Economics*, p. 315-340.

“Does Where You Go to Matter? The Impact of Outward Foreign Direct Investment on Multinationals’ Employment at Home,” (with Hongshik Lee and Joonhyung Lee), *Journal of Development Economics*, 2010, March, 91(2), p. 301-309.

Media: Vox CEPR

“Agglomeration, Backward and Forward Linkages: Evidence from South Korean Investment In China,” (with Joon Lee and Myungho Paik), *Canadian Journal of Economics*, 43, May 2010, pp. 520- 546.

Media: Vox CEPR

“Small Fish – Big Issues. The Impact of Trade Policy on the Global Shrimp Market,” *World Trade Review*, 2010, vol. 9, issue 02, pp. 353-374.

Media: Handelsblatt.

Discussed in Haering, N and O. Storbeck, 2009, *Economics 2.0, What the best minds in Economics can teach you about business and life*, Palgrave Macmillan, New York

“Do Tariffs Matter for the Extensive Margin of Trade? An Empirical Analysis,” (with Salah Mostashari) *Journal of International Economics*, 81, 2010, pp. 163-169 + online appendix. (lead article)

“International Saving and Investment and Trade,” (with Ufuk Demiroglu), *Open Economies Review*, 2008, vol 19, p. 613-627.

"Factor Accumulation without Diminishing Returns," (with Ufuk Demiroglu), *Review of International Economics*, 2006, vol. 14,1, p. 16-29.

"Monopolistic Competition and Trade, Revisited: Testing the Model without Testing for Gravity," [working paper title: Testing "New" Trade Theory without Testing for Gravity: Re-interpreting the Evidence], *Journal of International Economics*, 2005, vol. 66, 1, p. 249-266.

Reprinted in Bernhofen (ed.), *Empirical International Trade*, Edward Elgar Publishing, forthcoming, 2010.

Discussed in the graduate int. trade textbook: Feenstra, R., 2004, *Advanced International Trade: Theory and Evidence*, Princeton University Press and in Helpman, E, 2011, *Understanding Global Trade*, Harvard University Press, Cambridge.

Has been on graduate trade syllabus at: Princeton, Harvard, MIT, UMich, British Columbia, Maryland, National Univ. Singapore, Syracuse, Missouri, Univ. of Munich, Boston Univ., Upenn, Nottingham, Univ. of Lausanne, etc.

"Does Lumpiness Matter in an Open Economy?," *Journal of International Economics*, 2004, vol 64, 2, p. 485-501.

"Relative Factor Abundance and Trade," *Journal of Political Economy*, 2003, vol. 111, p. 589-610.

Discussed in Feenstra R., 2004, *Advanced International Trade: Theory and Evidence*, Princeton University Press, R. Baldwin's Ohlin lecture (2008), Brakman et al (2006) undergraduate textbook.

Has been on graduate trade syllabus at: UMich, Ohio State, Kiel Univ., North Carolina State, Stockholm School of Economics, Urbana Champaign, Texas A&M, Univ. Carlos III de Madrid, Univ. of Colorado, Univ. of Massachusetts, Univ. of Texas, etc.

"On the Similarity of Country Endowments and Factor Price Equalization for the Developed Countries," (with Ufuk Demiroglu),  
Cited in Feenstra, R. 2004, *Journal of International Economics*, 2003, vol, 59, 1, p. 101-136.

*Advanced International Trade: Theory and Evidence*, Princeton University Press and in Helpman, E., 2011, *Understanding Global Trade*, Harvard University Press.

Has been on graduate trade syllabus at Purdue Univ., Univ. of Copenhagen, Texas A&M, Univ. of Massachusetts, etc.

"Military Spending, the Peace Dividend and Fiscal Adjustment," (with H. Davodi, B. Clements, J. Schiff.), *IMF Staff Papers*, 2001, vol.48,2, p.290-316.

#### Edited Volumes

Water in Europe and the World, Double Special Issue *Europe Now* about Water research, December/January, Council for European Studies, Columbia University, 2018/2019 (edited with Nicole Shea).

#### Reports & Reviews

"Water Stewardship for Sustainable Prosperity," *The Nature Conservancy*, (with Nathan Karres and Kari Vigerstol), 2015.

Review of Water Pricing Experiences and Innovations, edited by Dina, Pochat and Albiac - Murillo, *Journal of Economic Literature*, December 2015, p. 195-197.

"Community Water Trusts: A Global Initiative to Address Water Scarcity, *Report for Rockefeller Foundation*, (with Nature Conservancy Team), 2015.

Book review: *Bertil Ohlin, A Centennial Celebration* by Findlay, Jonung and Lundahl (eds.), 2004, *Journal of Economic Literature*.

## Other publications

(with Blanding), M., 2020, Is Your Burger Depleting a River? Insights Peter Debaere, *Ideas to Action*, December.

The Corona Virus May Change Supply Chains in Unexpected Ways, *Virginia Economic Review*, July 2020, p. 27.

Reopening the Economy too soon will squander the work we've done to contain COVID-19. *Dallas Morning News*, June 2020.

UVA Economist: Political Rhetoric makes for bad Economics, WUVA News, July 2020.

(with Brian Richter) Irrigation & the Coronavirus: Nature also has its role to play, Water Blog, *Global Water Initiative*.

We can choose what global economy COVID leaves us, *Raconteur (Times Supplement)*, May 2020.  
Reprinted in French : L'économie Mondiale Après la Pandémie relève de Notre Choix, *La Tribune*, May 12, 2020 (also in Yahoo Finance, Le Journal Spécial des Sociétés, France).  
Reprinted in German in Tabula Rasa and Starting Up, May 23, 2020,

How the Corona Virus Shapes Globalization is our Choice, 2020, *Europe Now*, Council for European Studies, Columbia University, Issue April 27, 2020.

The following Q&As for the Global Water Blog in 2020:

- Q&A with Sydney Turner, Winner of GWI Graduate Water Prize, December, 2020
- Q&A with Ankur Pathak on Desalination on the High Sea, November 2020.
- Q&A with Richard Evans on the Relevance of the Past Cholera Pandemic (with Manuela Achilles), October 2020.
- Q&A with Sharon Megdal on Groundwater as a Wicked Problem, June 2, 2020
- Q&A with Seth Siegel on our Troubled Drinking Water, April 2020
- Q&A with Charles Burgis, Winner of the GWI Water Prize, February 2020
- Q&A with Faria Zahura, Winner of the GWI Water Prize, February 2020
- Q&A with Mushfiq Mobarak on Elite Capture and Deep Ground Wells and the Challenge of Fighting Arsenic Contamination, January 2020.

The following Q&A for the Global Water Blog in 2019:

- Q&A with Sheila Olmstead on the Benefits of Improved Water Quality, December 2019
- Q&A with Fernando Mercé on Nestlé's Water Strategy, October 2019
- Q&A with Earl Swift on Tangier Island, July 2019
- Q&A with Rong Fu on the Feedback Loop of Ecosystems (Vegetation) on Precipitation in the Amazon, June 2019
- Q&A with David Keiser on the Economic Impact of the Flint Water Crisis, June 2019
- Q&A with Ambassador Ram Aviram on the Hydropolitics in the Jordan River Basin, May 2019
- Q&A with Ariel Dinar on Transboundary/Basin Water Treaties, April 2019
- Q&A with Lint Barrage on Climate Risk, Flood Risk and the Housing Market, March 2019
- Q&A with Greg Characklis and Risk and Water Utilities, February 2019

- Q&A with Jeff Geise and Desalination, January 2019
- Q&A with Jon Freedman on SUEZ and Water Recycling, January 2019.

Water in Europe and the World, 2018/19, Introduction, *Europe Now*, Dec2018/Jan2019 Issue. (with Nicole Shea)

Abbreviated in *Ideas to Actions* (December 2018) The Global Water Crisis: Unpacking It Through a Multidisciplinary Lens.

Reprinted in GWI Water Blog; Water Challenges and Opportunities in Europe and the World.

The future of water research: An interview with Paolo D'Odorico, *Europe Now*, Dec2018/Jan2019 Issue.

The following Q&As for the Global Water Blog in 2018:

- Q&A with Courtney Hill, Winner of the GWI Graduate Water Prize, December 2018
- Q&A with Chandler Brenneman on Aqua America, October 2018
- Q&A with Salvi Asefi on Climate Change in East Africa, July 2018
- Q&A with Marama Muru Lanning about the Wakaido River, June 2018
- Q&A with Andrea Barrios on Impact Investing in Water, May 2018
- Q&A with George Hawkins about DC Water and Water Infrastructure, April 2018
- Q&A with Tim Beatley about Ocean Cities, March 2018
- Q&A with Lex Van Geen on Arsenic Contamination, March 2018
- Q&A with Julia Harte on Ilisu Dam, January 2018

An Expensive Lesson in Economics: Trump and the WTO, *Ideas to Action*, September 2018.

*Washington DC Gives Water A Makeover*, *Ideas to Action*, 15 June 2018 (with Krsitin Kloberdanz).  
<https://ideas.darden.virginia.edu/2018/06/washington-dc-gives-water-a-makeover/>

Globalization under Fire, 2018, *Europe Now*, Issue 14, February, Council for European Studies at Columbia University. <http://www.europenowjournal.org/2018/01/31/globalization-under-fire/>

Global Water Forum, UNESCO, Dec. 20 2017, Optimizing Water Use on a Global Scale - <http://www.globalwaterforum.org/2017/12/20/optimizing-water-use-on-a-global-scale/?pdf=14980>

Global Water Initiative Water Blog, Dec. 15 2017, The Challenge of Raising Water's Productivity <https://blogs.darden.virginia.edu/globalwater/2017/12/15/the-challenge-of-raising-water-productivity/>  
 republished in *Ideas to Action*, March 22, 2018.  
<https://ideas.darden.virginia.edu/2018/03/the-challenge-of-raising-water-productivity/>

The Remarkable Pattern of U.S. Water Use, (with Amanda Kurzendoerfer), *Vox CEPR Column*, May 12, 2015 <http://voxeu.org/article/us-water-use-patterns>

Case in Point: Countries' Water Policies Matter for Multinationals' Investment Decisions, *Washington Post*, May 3, 2014 (with Allison Elias).

Interview, *Logistics*, No1/2013, p.32-35.

Using Water Resources Efficiently on a Global Scale, *Vox CEPR Column*, Aug 22 2012.



<http://voxeu.org/article/using-water-resources-efficiently-global-scale>

Case in Point: How the Debt Crisis Could Signal Doom for the Euro, *Washington Post*, July 11, 2011.

Clustering Together Abroad: South Korean Multinationals in China, *Vox CEPR Column*, 2009.  
<http://voxeu.org/article/clustering-together-abroad-south-korean-multinationals-china>

Venturing Abroad at the Cost of Domestic Employment? *Vox CEPR Column*, Dec. 24 2008.  
<http://voxeu.org/article/venturing-abroad-cost-domestic-employment>

“Belgien: Zur Stabilität keine Alternative,” in German (Belgium: No Alternative For Stability), 1993, *Beitraege zur Wirtschafts-und Sozialpolitik*, Institut der deutschen Wirtschaft.

“Deutsche Zinsdominanz in Europa,” in German (German Interest Rate Dominance in Europe), 1993, *IW-Trends*, Institut der deutschen Wirtschaft.

“Is het internationaal monetair systeem aan hervormingen toe?” in Dutch (Is the International Monetary System in for Reform?), 1991, *Gids op Maatschappelijk Gebied*, pp. 271-280.

“Een dun laagje supranationaliteit. Lessen voor de VN uit 20 jaar IMF-geschiedenis,” in Dutch (A Thin Layer of Supranationality. Lessons for the UN From 20 Years of IMF History”), 1991, *Gids op Maatschappelijk Gebied*, pp. 685-694.

#### older working papers

“The Real-side Determinants of Countries' Terms of Trade, A Panel Data Analysis,” (with Hongshik Lee, UT), 2003.

“Reversing the Perspective: Expansion Activities of Multinational Corporations from Middle -Income Countries, 2003,” *CEPR Working Paper 4435*.

“Factor Abundance and Comparative Advantage in the Long run: Belgium vs. the UK,” 1999  
Centrum voor Economische Studien Working Paper.

### **TEACHING MATERIALS**

#### Published Cases (and teaching notes)

“The European Union and the Coronavirus: What Did it Learn from the Great Recession?,”  
*Darden Business Publishing*, UVA GEM 181, 2020.

“Water wars? Tension in the Nile Basin,” *Darden Business Publishing*, UVA GEM 162, 2018.  
(with Selcen Cakir)

“Deadly Wells in Bangladesh,” *Darden Business Publishing*, UVA GEM 158, 2018.

“DC Water: Water is Life,” *Darden Business Publishing*, UVA GEM 151, 2018. (with George Hawkins)

“Tariffs on Tires,” 2018, *Darden Business Publishing*, UVA GEM 159/60 (A & B case), (with Joon Lee)

- “The Plight of Labor in the Global Economy,” *Darden Business Publishing*, UVA GEM 155, 2018.
- “Trump Says the WTO Is A Disaster,” *Darden Business Publishing*, UVA GEM 152, 2018.  
*Case Centre Award for Economics, Politics and Business Environment, 2020.*
- “Rio Tinto: Making Hay from Water,” *Darden Business Publishing*, UVA GEM 130 2014.
- “Saudi Arabia: Oil for Water, *Darden Business Publishing*, UVA GEM 129 2014.
- “The Nature Conservancy: Advocating for and Investing in Sustainable Water Management,”  
*Darden Business Publishing*, UVA GEM123 2014 (with Brian Richter)
- “NaanDanJain: Every Drop of Water Counts. Drip Irrigation and the Fight against Water Scarcity, 2014, *Darden Business Publishing*, UVA GEM122 (with Allison Elias)
- “Water for Grain. The Great Plains in a Time of Globalization,” 2013, *Darden Business Publishing*, UVA GEM 114
- “Securing a City’s Future Water Supply. Building a Water Reservoir in Charlottesville, 2013, Virginia, *Darden Business Publishing*, UVA GEM 115 (with Brian Richter)
- “The Economy under the Nazis: Keynesianism avant la lettre?,” 2013, *Darden Business Publishing*, UVA- GEM 112 (with Manuela Achilles)
- “The Big Dry and Water Markets in Australia,” 2012, *Darden Business School*, UVA-GEM-109.
- “The Eurozone Convergence, Divergence... and then What?,” 2011, *Darden Business School*, UVA- GEM-107 (with Frank Warnock).
- “Turbulent Times in the Eurozone”, 2010, *Darden Business School*, UVA-GEM-100.
- “You thought this was easy? The U.S.-Thailand Free Trade Agreement,” (with Christine Davies), 2009, *Darden Business School*, UVA-G- 621
- “The Panic of 1907,” (with Bob Bruner and Sean Carr), 2009, *Darden Business School*, UVA-G-619.
- “Is the World’s Diamond Capital of the World Losing its Sparkle? Diamond Trading and Cutting in a Changing Global Economy,” (with Vincent de Koninck), 2009, *Darden Business School*, UVA-G – 612.
- “The IMF’s Coordinated Growth Strategy of 1977/78,” *Darden Business School*, 2009, UVA-G-601.
- “Fishy Issues: The US Shrimp Anti-dumping Case,” 2009, *Darden Business School*, UVA -G-600.
- “Zimbabwe: Grappling with Hyperinflation,” 2009, *Darden Business School Case*, UVA-G-599.  
The Teaching note UVA-G-599TN contains a description of the Inflation Game.

#### Published Technical Notes

- “(Water) Public-Private Partnerships: The Economics,” *Darden Business Publishing*, 2020, UVA-GEM-183 (with Andrew Kapral).
- “Budgeting Water Properly, *Darden Business Publishing*, 2019, UVA-GEM-173.
- “The Tragedy of the (Water) Commons, *Darden Business Publishing*, 2019, UVA-GEM-174.
- “The Specific Factors Model for Trade and Migration, 2018 *Darden Business Publishing*, UVA-GEM-157.
- “A Theory of GATT/WTO, 2018, *Darden Business Publishing*, GEM 153.
- “The Economics of Corporate Social Responsibility, 2016, *Darden Business Publishing*, UVA-GEM143 (with Jay Shimshack)
- “Private Provision of Public Goods,” 2016, *Darden Publishing*, UVA-GEM 144.
- “Public Provision of Water,” 2014, *Darden Business Publishing*, UVA-GEM-120.
- “Withdrawing Water from an Aquifer: The Economics,” 2014, *Darden Business Publishing*, UVA-GEM-119,
- “The Water Cycle, Climate Change and (some) of their Interactions,”2013, *Darden Business Publishing*, UVA-GEM- 118 (with Paolo D’Odorico)

“Water Markets from an Economic Point of View”, 2012, *Darden Business Publishing*,  
“A Framework to think about pollution: Externalities, Pollution Taxes and Cap and Trade, 2011  
*Darden Business Publishing*, UVA-GEM-0104

“Imperfect Competition and Welfare”, 2011, *Darden Business Publishing*, UVA GEM-0105

“Customs Unions and Free Trade Areas,” 2009, *Darden Business School*, UVA-G-624.

“The Profit Maximizing Firm as Exporter,” 2009, *Darden Business School*, UVA-G-622.

“The Profit-Maximizing Firm as Multinational Corporation,” 2009, *Darden Business School*,  
UVA-G-623.

“Multinationals and Foreign Direct Investment,” 2009, *Darden Business School*, UVA-G-613.

“The Effects of Tariffs and Quotas,” 2009, *Darden Business School*, UVA-G-595.

“Why Countries Trade: The theory of comparative Advantage,” 2009, *Darden Business School*,  
UVA-G-594.

#### Class Experiments

“Trading in a Pitt: The Chicago Mercantile Exchange,” 2009, *Darden Business School*, UVA-S  
-G-593.

“The Inflation Game,” 2009, *Darden Business School*, UVA-S-G-599.

#### Prematric Module

“A Refresher Course in Economics for incoming MBA students,” 2008, *Darden Business School*,  
UVA-G-597TN; see cases UVA-G-598, 597, 596, 593, 592.

### **FELLOWSHIPS/GRANTS/AWARDS**

Case Center, Bestselling Case 2020, “Trump Says the WTO Is A Disaster,” *Darden  
Business Publishing*, UVA GEM 152, 2018.

Co-investigator CoLab \$ 30,000 Grant (with Julie Quinn and Brian Richter, Coordinating  
Water Markets and Critical Infrastructure Management to Build Community  
Resilience to Changing Drought Extremes

Case Centre Award for Economics, Politics and Business Environment, 2020, for “Trump  
Says the WTO Is A Disaster,” *Darden Business Publishing*, UVA GEM 152,  
2018.

Co-investigator CoLab Grant, Surface Water Quality in the United States: Data,  
Methods, and Causes, 2019, \$ 30,000, (with Teresa Culver and Jay Shimshack),  
2018.

Co-Investigator, 3 C Grant, Provost’s Office, UVA, \$ 60,000, Green water  
infrastructure, 2018-19 (with Larry Band, Mike Pace), 2018.

Grant for Academic Excellence, for Global Water Center (\$35,000), 2016.

Co-investigator Research Seed Fund, Water Security, College, Darden Business School  
, University of Virginia, (\$ 250,000), 2016-2017.

Co-investigator Rockefeller Grant for Nature Conservancy’s Impact Investment in  
Community Water Trusts: A Prototype Proposal to the Rockefeller  
Foundation, Rockefeller Foundation (\$ 399,460) (March – August 2015).

Vice-President for Research Grant to organize World Water Day Symposium, University  
of Virginia 2013, 2014.

Grant from Center for Global Innovation and Inquiry, UVA, to organize World Water  
Day Symposium, 2013, 2014, extended 2015.

Summer Research Grant, Darden Business School, 2006 – present

University of Texas, 1999-01, 2003,  
Big XII Fellowship, Spring 2004.  
Special Research Grant, Univ. of Texas, Fall 2002, Spring 2005.  
Dean's Fellowship, Univ. of Texas, Fall 2001.  
Rackham Fellowship, University of Michigan, Fall 1997.  
Research Fellowship, Belgian National Fund for Scientific Research, Fall 1993  
-Summer 1997.  
Scholarship, Belgian American Educational Foundation, Fall 1993-Winter 1994.  
Summer Research Fellowship, University of Michigan, Summer 1993.  
Scholarship, DAAD University of Cologne, Fall 1987.

## **INVITED SEMINAR PRESENTATIONS AND CONFERENCES**

Annual Geophysics Union Meeting, Dec. 18, San Francisco, 2014. December 2016.  
December 2019.  
American Economic Association, Denver, January 2011, Boston 2001,  
Belgian and Dutch Embassy, Nov. 2010, Transatlantic Perspectives on Global Economic  
Recovery and US-European FTA.  
Boston College, Boston, November 2005.  
Brown University, Econometric Society Meetings, Brown University, June 2004  
University of California, Davis, May 2006.  
Univ. of California, San Diego, June 2012.  
University of California, Santa Cruz, February 2006, Annual International Economics  
Conference, Oct 2003.  
University of Calgary, Canada, November 2005.  
Central European University, Hungary, Budapest, April 2008.  
CKGSB and Tsinghua University, China, June 2011, Conference Public Finance Issues  
in China.  
Claremont Mckenna, November 2005.  
University of Colorado, Boulder, March 2004.  
Columbia University, New York, September 2004, Global Water Summit (The Nature  
Conservancy), December 2016.  
Concordia University, Montreal, Canada January 2006.  
Empirical Trade and Investment Conference, Banff, Canada, May 2010, May 2006,  
Purdue, Nov. 2003, Nov. 2001, Boulder, Nov., 2000, Purdue, 1998  
European Economic Association Meetings, Berlin, Sept. 1998, Toulouse, 1997  
Federal Reserve, New York, November 2004, Boston 1998  
Georgetown University, Washington D.C., March 2004.  
International Monetary Fund, Washington D.C., March 2004, 1998  
Kiel Univ., Germany, June 2008, Institute for the World Economy, Dec. 2005, Nov.  
2004.  
KUL University of Leuven, Belgium, May 2010.  
University of Illinois, Urbana Champagne, Nov. 2005, Nov. 2003,  
Johns Hopkins University, SAIS, Washington D.C., April 2009.  
University of Mannheim, Germany, December 2005.  
University of Maryland, Agecon, December 2005, Econ, April 2004  
Univ. of Michigan, Econ Dept., March 2013, Conference on Fragmentation of  
Production, Oct. 2009, Conference in honor of Alan Deardorff, Oct. 2009, Sept. 2003,  
Sept. 1997  
Michigan State University, Lansing, Sept. 2003

Midwest International Economics Meeting, Iowa University, May 2009, Michigan, 2007,  
 Indiana-Bloomington, Nov. 2003, Notre-Dame, 2002, Urbana-Champaign, 1999, Oct.  
 1997  
 National Bank of Belgium (Seminar on Firm Analysis jointly organized by eight  
 universities), March 2015.  
 University of Milan, CEPR conference, Globalization, Investment and Service Trade,  
 June 2009.  
 University of Missouri, November 2005.  
 NBER, TRIO Tokyo Conference, Tokyo, Dec. 2002 (invited discussant).  
 University of North Carolina, Chapel Hill, October 2005.  
 North Carolina State University, October 2005.  
 University of Nottingham, Nottingham, UK, April 2007.  
 Ohio State University, Columbus, Sept 2003.  
 Otago Workshop in International Trade, New Zealand, April 2007.  
 Pennsylvania State University, December 2005.  
 Purdue University, Lafayette, Sept. 2006.  
 University of Rotterdam, Tinbergen Institute, Holland, September 2007.  
 Rutgers University, International Economics Conference, Nov. 1999  
 University of Sankt Gallen, Switzerland, November 2009.  
 Shanghai University of Finance and Economics, Shanghai, China, June 2011.  
 University of Southampton, UK, December 2005.  
 Southern Economics Conference, Washington D.C., November 2008, Charleston, 2006.  
 Southern Methodist University, Dallas, November 2005.  
 Southwestern University of Finance and Economics, Chengdu, China, June 2011.  
 Syracuse University, Maxwell Public Policy School, Nov. 2002.  
 University of Texas, Austin, Korea Seminar, January 2004, ITAM conference Nov.  
 2002, Lonestar Conference, 2000, Nov. 1998, Febr. 1998  
 Texas A&M University, College Station, Sept. 2003.  
 University of Toronto, Toronto, Febr. 1998.  
 University of Tuebingen, Germany, April 2008.  
 Vanderbilt University, Tennessee, February 2005.  
 Univ. of Virginia, Darden Business School, April and August 2013, Sept. 2009, April  
 2007, Febr. 2006  
 Univ. of Virginia, Economics Dept, Sept. 2016, Dec. 2014, Sept. 2012, Aug. 2009, Sept.  
 2007  
 Stanford, NBER International Trade, Dec. 2001, Dec. 2000,  
 Yale University, New Haven, March. 2003.  
 York University, Toronto, Febr, 1998.

## **SERVICES TO THE SCHOOL/TO THE UNIVERSITY/PROFESSION**

### *Committee Work, Leadership in Darden, University*

Area Head GEM, 2018 - present

Chair GEM Search Committee, 2017 - 2018

Sustainability Committee, 2016- present

Coordinator Global Economics and Markets Business Concentration, Sept. 2014 – present.

Faculty Representative on Retirement Committee, Darden Foundation, 2017-2019.

Course Head Economics Full time program, 2010-2014.

Faculty Leader EMBA, Fall 2015.

Jefferson Darden Scholarship Committee, 2014- 2016.

Scholarship Committee, Darden, 2014- 2016.

Advisor Joint MA/MBA Program Public Policy School–Darden Business School, 2012-present, also set up joint program.

Faculty Leader, EMBA Program, 2015.

Course Head Global Economics and Markets, Course First Year Program, 2010-2014.

GEM search committee, 2016, 2014, 2013, 2012, 2010, 2009.

MBA Program Committee, 2010.

Technology Committee, 2008.

(Founding) Member of Advisory Board and Founding Member of the *Center for German Studies* at the University of Virginia, 2008 - present.

Center for German Studies is an interdisciplinary Center (German Dept, History, Architecture, Business School, Engineering, Religious Studies, Jewish Studies, Sociology) that studies Germany within Europe, focusing on 1) Environmental Policy 2) German-Jewish relations 3) Cultural Knowledge.

<http://germanstudies.virginia.edu/>

Principal Investigator, 2015 & 2016, UVA Global Water Center proposal. A team of 10 UVA professors from Darden, Engineering, Env. Science, Economics, Batten and School of Architecture proposed to the Provost a Pan-University Institute. The Global Water Center proposal was one of six finalists.

Promotion Committee International Economics, Economics Dept. 2014, 2016.

On Senate Committee on composition of the Board of Visitors, UVA, Fall 2012.

Bankard Finance Committee, 2008-.2011

Distributes funds for economics-related research across the university. Funds are used to finance speaker seminars, conferences, faculty summer research, Phd scholarships,

Executive Committee, UT Economics Department fall 2002 - summer 2003.

Organizing Symposia, Seminars, Speaker Series

Co-organizer, water research seminars since 2017

Chair, World Water Events, UVA, 2020, Field Trip SWIFT project and Norfolk Sea-level rise defense, Ground Water Management, Talk Sharon Megdal (Univ. of Arizona).

Chair, World Water Events, UVA, 2019, Panel on Climate Change and Chesapeake Bay (Swift (author), Band (UVA), Gilinsky (River Network), Keynote: Rong Fu (UCLA), Ram Aviram (Israeli Ambassador), Storm water tour UVA (Culver), Field trip to Surry Nuclear Power Plant and Rice Rivers Center.

Chair, World Water Events, UVA, 2018, Keynotes: Lex Van Geen (Columbia) Arsenic in Bangladeshi Wells (Engineering), Panel on Impact Investing in Water (Darden), Barros, (Rockefeller), Schuyler (Cornerstone), Deane (Water Asset Management), Richter (Sustainable Waters), Field Trip to DC Water & World Bank Water Group, River Cleanup, Documentary Tim Beatley (UVA), Ocean Cities.

Chair, World Water Events, UVA, 2017, A series of events around World Water Day Keynotes: Prof. David Sedlak (Berkeley), Dean Ila Berman (UVA Architecture), panel 3 years after Flint (Cale Jaffe, UVA, Amy Pruden, Virginia Tech, Ruffner Page, CEO McWane, and field trip to Charlottesville Reservoir + river water testing)

Co-organizer research conference (Collaboration economics dept. and Darden), *Asia and the Global Economy*, April 22, 2016. <http://conference.darden.virginia.edu/aic/>

Co-chair (with Brian Richter, Nature Conservancy), *World Water Events*, UVA, 2016.

A series of events around World Water Day: Keynote by Peter Brabeck (chairman, former CEO of Nestle), research talk by Jampel Dell' Angelo (Env. Science), River Cleaning Activity (Rivanna Conservation Alliance), Panel on Storm water (Law, Policy School, Engineering, Rivanna Conservation Alliance). Water and cities (The Nature Conservancy). Collaboration: Darden Business School, Architecture, Engineering, Env. Sciences, Health Center, Batten Public School, Center for Global Inquiry and Innovation, Rivanna Conservation Alliance.

<https://uvaworldwater.org/>

Co-organizer, *Green Growth, Smart Growth*, April 14, 2015, Visit by Ralf Fuecks, President of Heinrich Boell Foundation. Cooperation Institute for Business and Society, Center for German Study, Boell Foundation, Environmental Sciences.

Co-chair (with Brian Richter, Nature Conservancy), *World Water Week*, UVA, Charlottesville, March-April, 2015

A series of events around World Water day: Keynote by Sandra Postel (National Geographic), Research lecture by Hornberger (Env. Science), Galloway (Engineering), Panel on water scarcity in California as challenge and opportunity for business (Norley, Szeptycki (Stanford), Radtke (Coke North America) at Darden, clean-up of Rivanna River (Rivanna Conservation Alliance). Cooperation Engineering, Environmental Science, Darden's Institute of Business in Society, Vice President for Research, Center for Global Inquiry and Innovation.

Media: NBC29, Daily Progress, Green Podcasts with Postel, Septycki, Norely, Radtke)

Co-chair (with Brian Richter, Nature Conservancy), *World Water Day Symposium*, UVA, Charlottesville, March 2014

One-day symposium on water issues, collaboration across UVA with Darden's Institute for Business in Society, Center for Global Health, Dept. of Environmental Science, Office of Vice President for Research, Center for Global Inquiry and Innovation, Institute for Practical Ethics and Public Life; Keynote, Jamie Pittock (WWF); Panel on Challenges and Opportunities of Water Markets; Panel on Access to Safe Drinking Water and Health (with focus on South Africa)

Prelude: Jan. 2014 Brian Richter Talk about Water Scarcity, Jan. 2014.

Media: NBC29, UVAToday, Newsplex.com, Darden Business Cast (March 21, 2014), NPR (91.1 FM WTJU), Green Podcast with Jamie Pittock and Brian Richter (May 2, 2014).

Co-organizer, *Empirical Investigations in International Trade*, UVA, Research Conference, Collaboration Darden Business School and Economics Dept., Charlottesville, Fall 2013. (Keynote: Elhanan Helpman, Harvard)  
<http://www.freit.org/EIIT/2013/>

Co-organizer, *German Energy Transition* – visit Hermann Ott (German Green Party), cooperation Darden's Institute for Business in Society and Center for German Studies, April 30, 2013; (Darden Business Cast May 3, 2013)

Co-Chair Symposium *Car of the Future/Future of the Car*, UVA, Nov. 2010.  
Two-day symposium to address sustainability issues by focusing on the car; Collaboration across UVA by Darden School of Business, School of Engineering, College of Arts and Sciences, School of Architecture, Center for German Studies with as speakers Jeremy Rifkin, Debbie Gordon and Dan Sperling (UC Davis), Tim Beatley (UVA, Architecture), Chris Borroni-Bird (GM) Frank Weith (VW), Michelle Buchanan (Oakridge National Lab), Bob Davis (UVA, Chemical Engineering), Brent Gunnoe (UVA, Chemistry).  
<http://germanstudies.virginia.edu/family-weekend-symposium-car-futurefuture-car-november-5-6-2010>

Media: Darden Business Cast with Peter Debaere (Nov. 5, 2010); Darden Green Podcast with Debbie Gordon (Dec. 2010), Green Podcast with Jeremy Rifkin (Nov. 5, 2010), UVA Today

Follow-up 2011 Richard Register about Green Cities: Media: Darden Green Podcast April 15, 2011.

Co-organized *Jefferson International Lectures*, Darden Business School, 2007- 2012, (D. Trefler (Toronto), G. Hanson (UC San Diego), S. Taylor (Calgary)r, R. Staiger (Stanford), M. Obstfeld (UC Berkeley), R. Caballero (MIT))

Co-organized *German Re-unification from an Economic Perspective After 20 years* with



Dr Helmut Kaiser, Deutsche Bank, Cooperation Darden Business School and Center for German Studies (Darden Podcast Sept. 28, 2009; Darden Speaker Series 44 Youtube)

Co-chair *Seminars in International Trade and Investment*, UT, Fall 1998 till Spring 2005.

Co-organized Internal Summer Research Seminar Series, UT, 2003 and 2004.

Chair, *Arlitt Public Lecture* (Prof. Hal Varian, UC Berkeley), UT, 2004

Co-chair *Murray Johnson Conference in International Economics*, UT, April 2001 (Deardorff (Michigan), Hanson (Michigan), Markusen (Colorado), McLaren (UVA), Venables(LSE), Rauch (UC San Diego)

#### Guest Lectures, Public Fora, Panel

##### Guest lectures across the University:

“Let’s Talk about Water: A conversation with Fernando Mercé,” Leadership Unscripted, Fall 2020.

How the Corona Virus Shapes Globalization is our Choice, online webinar for Darden Alumni, spring 2020.

The challenge of increasing water productivity and water markets, Environmental Science, Spring 2019.

Water Markets, School of Architecture/Environmental Science, Fall 2013, Fall 2014, 2015.2017, Spring 2019.

Economics under the Nazis, History Dept., Spring 2013.

Globalization from an Economic Perspective, History Dept. and School of Education, Spring 2008, Spring 2010, Spring 2011.

Impact of Tariffs and Food Standards in: Food for Thought, Interdisciplinary Program: Economics, Biology, Dietary Studies, Spring 2007.

Die deutsche Volkswirtschaft in Europa, German Department, Business German, Spring 2007 and Spring 2008.

The German Reunification, History, Spring 2007 and Fall 2012, Fall 2015.

Multinationals from South Korea, South Korea Seminar, University of Texas, 2004.

##### Public Forum/Panel

Global Water Initiative, Thought Leadership Talk, Darden, Board of Trustees, April 2019.

The Do’s and Don’t’s of doing business globally, DICE, Darden, April 2019.

A Roundtable on water, oil and trash, European Studies, UVA, spring 2019.

Round Table on Water, Resources for the Future, December 2018, Washington D.C.

The Presidents’ Forum, Los Angeles, January 2017, What about water? Forum for U.S. Senate Presidents.

The Concordia Summit, New York, September 2016, Strategic Dialogue on Water.

Sustainability in Transatlantic Perspective: A Multi-disciplinary Approach, Energy, Climate and the Environment, Center for German Studies, UVA, October 2013.

The Financial Crisis and its Response: the U.S. vs. Europe”, Center for German Studies, May 2009.  
Money, Credibility and Trust (with Prof. Christina von Braun), Center for German Studies, December 2009.  
Globalization, Living in Different Worlds, Department of Anthropology, Nov. 2007.  
“What about the Dollar?” Darden Alumni Meeting, Frankfurt, July 2008.  
Talk about Globalization, Economics Association, University of Texas, Febr. 2002.  
Inez Jeffery Public Lecture, “Globalization from an Economic Perspective”, Lyndon B Johnson School, University of Texas, Austin, Jan. 2002.

## **ADVISING**

Joint Advising of PhD students in Economics Dept, since 2010 - present  
UVA profs in international economics meet every other week with PhD students as a group to discuss research progress.

Mentor in Excellence in Diversity Program for incoming faculty at UVA, 2009.

On thesis committee, Economics Dept. (outside member) of Panayiotis Pourpourides (2007), Rich Nelson (2007), Masahiro Kodama (2008), Shushanik Hakobyan (2011), Felipe Benguira (2014), Amanda Kuerzendoerfer (2014), Tianshu Li (2016), Selcen Cakir (2018), Pingyu He (2019), Myunghwan Yoo (2019)

Chair of dissertation committee at UT of Hongshik Lee (University of Korea, Seoul), Shalah Mostashari (Texas A&M) and Joon Lee.

On thesis committee at UT of Peter Chang (University of Wellington, New Zealand), Sue Malion (Emory University), Dona Rai, Eunsook Seo (Bank of Korea).

## **OTHER PROFESSIONAL ACTIVITIES**

Referee - American Economic Review, Journal of International Economics, Review of International Economics, Journal of Political Economy, Oxford Economic Papers, Economic Theory, European Economic Review, Journal of Development Economics, North American Journal of Economics and Finance, B.E. Journals in Economic Analysis and Policy, Southern Economic Journal, Journal of Development Economics, The World Economy, Review of International Business, Quarterly Journal of Economics, American Journal of Agricultural Economics, Review of Agricultural Economics, Open Economies Review, Journal of International Business, Canadian Journal of Economics. American Economic Journal Applied. Science of the Total Environment.  
- for the National Science Foundation.

Organized session at the Econometric Society Meetings, Brown University, July 2004.