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# ARTHUR A. VAN BENTHEM

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Department of Business Economics and Public Policy  
The Wharton School, University of Pennsylvania  
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## **FIELDS OF SPECIALIZATION**

Environmental Economics, Energy Economics, Public Economics

## **ACADEMIC POSITIONS**

Professor of Business Economics and Public Policy, The Wharton School, University of Pennsylvania, 2025 – present

Associate Professor of Business Economics and Public Policy (with tenure), The Wharton School, University of Pennsylvania, 2020 – 2025

Assistant Professor of Business Economics and Public Policy, The Wharton School, University of Pennsylvania, 2012 – 2020

National Bureau of Economic Research, Research Associate, 2020 – present  
National Bureau of Economic Research, Faculty Research Fellow, 2013 – 2020

Faculty Co-Director (joint with Sarah Light), Wharton Climate Center, 2022 – present  
Faculty Co-Lead (joint with Sarah Light), Business, Climate and Environment Lab, Wharton Risk Center, 2020 – 2022

Centre for Economic Policy Research, Research Fellow, 2022 – present  
Centre for Economic Policy Research, Research Affiliate, 2014 – 2022

Faculty Fellow, Kleinman Center for Energy Policy, University of Pennsylvania, 2017 – present

Affiliate Member, CESifo, 2017 – present

## **EDUCATION**

Ph.D. in Economics, Stanford University, 2012  
Dissertation: “*Unintended Consequences from Environmental Legislation*”

M.S. in Management Science & Engineering, Stanford University, 2005  
Specialization in Energy Economics and Policy

M.S. in Econometrics, University of Amsterdam, 2003 (cum laude)

B.S. in Econometrics and Operations Research, University of Amsterdam, 2003 (cum laude)  
Minor in Earth Sciences

## **EXTERNAL EXPERIENCE**

- 2006-07 Energy Economist, Shell Long-Term Energy Scenarios Team, Royal Dutch Shell, The Hague, Netherlands
- 2005 Quantitative Analyst, Shell Energy Europe, The Hague, Netherlands
- 2002-03 Evening Stock Trader, IMC Trading, Amsterdam, Netherlands

## **PUBLICATIONS**

KWOK, T.C., D. SPIRO AND A.A. VAN BENTHEM, FORTHCOMING. “Firm Ownership and Pollution”, *Journal of Environmental Economics and Management*.

PERINO, G., R.A. RITZ AND A.A. VAN BENTHEM, 2025. “Overlapping Climate Policies”, *The Economic Journal* 135(671): 2122-2160.

ABITO J.M., F. FLORES-GOLFIN, A.A. VAN BENTHEM AND G. VASEY, 2025. “Designing More Cost-Effective Trading Markets for Renewable Energy”, *The Energy Journal* 46(4): 227-252.

LEE, B.C., D. BROOKS, A.A. VAN BENTHEM, ET AL., 2025. “A View of the Sustainable Computing Landscape”, *Patterns* 6(7): 101296.

REYNAERT, M., E. SOUSA-RODRIGUES AND A.A. VAN BENTHEM, 2024. “The Environmental Impacts of Protected Area Policy”, *Regional Science and Urban Economics* 107: 103968.

ABITO, J.M., J.S. HAN, J.F. HOODE AND A.A. VAN BENTHEM, 2024. “Agency Frictions and Procurement: New Evidence from U.S. Electricity Restructuring”, *Journal of Industrial Economics* 72(1): 20 – 48.

JACOBSEN, M.R., J.M. SALLEE, J.S. SHAPIRO AND A.A. VAN BENTHEM, 2023. “Regulating Untaxable Externalities: Are Vehicle Air Pollution Standards Effective and Efficient?”, *Quarterly Journal of Economics* 138(3): 1907 – 1976.

GILLINGHAM, K., A.A. VAN BENTHEM, S. WEBER, M.A. SAAFI AND X. HE, 2023. “Has Consumer Acceptance of Electric Vehicles Been Increasing? Evidence from Microdata on Every New Vehicle Sale in the United States”, *AEA Papers & Proceedings* 113: 329 – 35.

VAN BENTHEM, A.A., E. CROOKS, S. GIGLIO, E. SCHWOB AND J.C. STROEBEL, 2022. “How Do Climate Risks Affect the Interactions Between Financial Markets and Energy Companies?”, *Nature Energy* 7: 690 – 697.

SEVEREN, C. AND A.A. VAN BENTHEM, 2022. “Formative Experiences and the Price of Gasoline”, *American Economic Journal: Applied Economics* 14(2): 256 – 284. Featured as [Research Highlight](#) in *Nature Energy*.

GILLINGHAM, K., S. HOUDE AND A.A. VAN BENTHEM, 2021. “Consumer Myopia in Vehicle Purchases: Evidence from a Natural Experiment”, *American Economic Journal: Economic Policy* 13(3): 207 – 238.

HAN, J.S., J.F. HOUDE, A.A. VAN BENTHEM AND J.M. ABITO, 2021. “When Does Regulation Distort Costs? Lessons from Fuel Procurement in US Electricity Generation: Comment”, *American Economic Review* 111(4): 1356 – 1372.

ENGSTRÖM, G., J. GARS, N. JAAKKOLA, T. LINDAHL, D. SPIRO AND A.A. VAN BENTHEM, 2020. “What Policies Address Both the Coronavirus Crisis and the Climate Crisis?”, *Environmental and Resource Economics* 76(4): 789 – 810.

JACOBSEN, M.R., C.R. KNITTEL, J.M. SALLEE AND A.A. VAN BENTHEM, 2020, “The Use of Regression Statistics to Analyze Imperfect Pricing Policies”, *Journal of Political Economy* 128(5): 1826 – 1876.

BENTO, A.M., M.R. JACOBSEN, C.R. KNITTEL AND A.A. VAN BENTHEM, 2020, “Estimating the Costs and Benefits of Fuel Economy Standards”, *Environmental and Energy Policy and the Economy* 1: 129 – 157.

PLESS, J. AND A.A. VAN BENTHEM, 2019, “Pass-Through as a Test for Market Power: An Application to Solar Subsidies”, *American Economic Journal: Applied Economics* 11(4): 367 – 401.

JAAKKOLA, N., D. SPIRO AND A.A. VAN BENTHEM, 2019, “Finders, Keepers?”, *Journal of Public Economics* 169: 17 – 33.

BENTO, A.M., K. GILLINGHAM, M.R. JACOBSEN, C.R. KNITTEL, B. LEARD, J. LINN, V. MCCONNELL, D. RAPSON, J.M. SALLEE, A.A. VAN BENTHEM AND K.S. WHITEFOOT, 2018, “Flawed Analyses of U.S. Auto Fuel Economy Standards”, *Science* 362(6419): 1119 – 1121.

VAN BENTHEM, A.A., 2015, “What Is the Optimal Speed Limit on Freeways?”, *Journal of Public Economics* 124: 44 – 62.

JACOBSEN, M.R. AND A.A. VAN BENTHEM, 2015, “Vehicle Scrappage and Gasoline Policy”, *American Economic Review* 105(3): 1312 – 1338.

VAN BENTHEM, A.A., 2015, “Energy Leapfrogging”, *Journal of the Association of Environmental and Resource Economists* 2(1): 93 – 132.

VAN BENTHEM, A.A. AND S. KERR, 2013, “Scale and Transfers in International Emissions Offset Programs”, *Journal of Public Economics* 107: 31 – 46.

STROEBEL, J.C. AND A.A. VAN BENTHEM, 2013, “Resource Extraction Contracts Under Threat of Expropriation: Theory and Evidence”, *The Review of Economics and Statistics* 95(5): 1622 – 1639.

STROEBEL, J.C. AND A.A. VAN BENTHEM, 2013, “Investment Treaties and Hydrocarbon Taxation in Developing Countries”, in C. Fuest and G.R. Zodrow (eds.), *Critical Issues in Taxation and Development*, Cambridge, MA: The MIT Press, 83 – 106.

GOULDER, L.H., M.R. JACOBSEN AND A.A. VAN BENTHEM, 2012, “Unintended Consequences from Nested State & Federal Regulations: The Case of the Pavley Greenhouse-Gas-per-Mile Limits”, *Journal of Environmental Economics and Management* 63(2): 187 – 207.

NOWLIS, J.S. AND A.A. VAN BENTHEM, 2012, “Do Property Rights Lead to Sustainable Catch Increases?”, *Marine Resource Economics* 27 (1): 89 – 105.

VAN BENTHEM, A.A. AND M. ROMANI, 2009, “Fuelling Growth: What Drives Energy Demand in Developing Countries?”, *The Energy Journal* 30(3): 91 – 114.

VAN BENTHEM, A.A., K. GILLINGHAM AND J.L. SWEENEY, 2008, “Learning-by-Doing and the Optimal Solar Policy in California”, *The Energy Journal* 29(3): 131 – 151.

VAN BENTHEM, A.A., G.J. KRAMER AND R. RAMER, 2006, “An Options Approach to Investment in a Hydrogen Infrastructure”, *Energy Policy* 34(17): 2949 – 2963.

## **WORKING PAPERS**

GRUPP, T., P. MISHRA, M. REYNAERT AND A.A. VAN BENTHEM, “An Evaluation of Protected Area Policies in the European Union”, Revise & Resubmit, *The Review of Economic Studies*.

HINCHBERGER, A.J., M.R. JACOBSEN, C.R. KNITTEL, J.M. SALLEE AND A.A. VAN BENTHEM, “The Efficiency of Dynamic Electricity Prices”, Revise & Resubmit, *American Economic Journal: Economic Policy*.

LOCKWOOD, B., P. LUGTHART AND A.A. VAN BENTHEM, “Optimal Local Transit Pricing with Distributional Concerns”.

## **WORK-IN-PROGRESS**

SHAPIRO, J.S. AND A.A. VAN BENTHEM, “The Equity and Efficiency of Environmental Policy for Transportation: Evidence from Smog Check”.

AZEVEDO, E., S. BERKOUWER, P. MISHRA, A. RUSSO, A.A. VAN BENTHEM AND F. YANG “The Efficiency of Carbon Offset Markets”.

GILLINGHAM, K., A.A. VAN BENTHEM, S. WEBER AND X. HE. “Effects of Zero-Emissions Vehicle Mandates on Automaker Strategies and Sales”.

MISHRA, P., A. OSPITAL, M. REYNAERT AND A.A. VAN BENTHEM, “Equilibrium Effects of the EU Common Agricultural Policy”.

PERINO, G., R.A. RITZ AND A.A. VAN BENTHEM, “Cancelling Carbon in Cap-and-Trade Systems”.

## **TEACHING**

|           |   |
|-----------|---|
| 2023-pres | Climate and Financial Markets (ACCT/BEPP 7640), MBA level (Wharton)   |
| 2013-pres | Energy Markets and Policy (BEPP/OIDD 7630), MBA level (Wharton)<br>Environmental & Energy Economics and Policy (BEPP/OIDD 2630), UG (Wharton)   |
| 2013-21   | Energy Markets and Policy (BEPP/OIDD 7630X), WEMBA level (Wharton)  |
| 2010      | Teaching Assistant for Prof. S. Kerr, Stanford University, Environmental Economics and Policy (teaching rating 4.8/5.0)   |
| 2007      | Design and teaching of the interdisciplinary honors course for Masters students “From Scientific Reasoning to Public Debate: The Case of Sustainable Energy”, University of Amsterdam, led by Prof. L. Fresco |
| 2000-01   | Teaching Assistant for Prof. R. Ramer, University of Amsterdam, Linear Algebra and Multivariate Calculus  |
| 1999      | Teaching Assistant for Prof. J.G. de Gooijer, University of Amsterdam, Exploratory Data Analysis  |

## **SCHOLARSHIPS, HONORS AND AWARDS**

|         |  |
|---------|--|
| 2023-25 | <i>Wharton Teaching Excellence Award</i>   |
| 2023    | MBA course Climate and Financial Markets “Highly Commended” by the <i>Financial Times</i> Responsible Business Education Awards                            |
| 2017-21 | <i>Wharton Teaching Excellence Award</i>   |
| 2019    | <i>USAEE/LAEE Best Working Paper Award</i> , for the paper “Consumer Myopia in Vehicle Purchases: Evidence from a Natural Experiment”                      |
| 2018    | <i>Excellence in Teaching Award for the Undergraduate Division</i> for the course Energy & Environmental Economics and Policy at Wharton                   |
| 2018    | <i>Excellence in Teaching Award for the MBA Program for Executives   Philadelphia</i> for the course Energy Markets and Policy at Wharton                  |
| 2017    | <i>Top 40 Undergraduate Business School Professors</i> , Poets & Quants for Undergrads   |
| 2017    | <i>Excellence in Teaching Award for the Undergraduate Division</i> for the course Energy & Environmental Economics and Policy at Wharton                   |
| 2016    | <i>Teaching Commitment and Curricular Innovation Award</i> for the design and teaching of the MBA-level course Energy Markets and Policy at Wharton        |
| 2011-12 | <i>Leonard W. Ely and Shirley R. Ely Graduate Student Fellowship</i> , dissertation completion fellowship, Stanford Institute for Economic Policy Research |
| 2010    | <i>USAEE/LAEE Best Working Paper Award</i> , for the paper “Resource Extraction Contracts Under Threat of Expropriation: Theory and Evidence”              |
| 2010    | <i>Outstanding Teaching Assistant Award</i> , Economics Department, Stanford University  |

- 2007-10 *Stanford University Graduate Fellowship* and *Prins Bernhard Cultuurfondsbeurs* for graduate studies in Economics
- 2006-07 *Special Recognition Awards* for the development of the World Energy Model (2006) and the Shell Energy Scenarios (2007), Shell International
- 2005 Award for *Outstanding Academic Achievement at the Graduate Level*, for highest GPA in the Department of Management Science and Engineering, Stanford University
- 2004-05 *Fulbright-Citibank Scholarship*, *Award for Talented Students* (Dutch Ministry of Education), and *VSB Scholarship*, for graduate study in the United States
- 2004 *Thesis Awards for Greatest Academic Achievements*, second prize, University of Amsterdam
- 2000-01 *Bonusbeurs scholarship* University of Amsterdam, Earth Sciences
- 1998 National awards, Dutch Association of Chemical Industry NVCI and Dutch Classics Association NKV, for outstanding exams in chemistry and Latin

## **MAJOR GRANTS**

*National Science Foundation* expeditions grant, research project “Carbon Connect: An Ecosystem for Sustainable Computing”, 2024-2028, with David Brooks, Benjamin Lee, and many other co-PIs (Penn total: \$4,177,609)

*National Science Foundation* award, research project “Regulating Untaxable Externalities: Are Vehicle Air Pollution Standards Effective and Efficient?”, 2021-2024, with Mark Jacobsen, James Sallee and Joseph Shapiro (\$527,000)

*FORMAS*, The Economics of Planetary Boundaries, 2021-2024, with Daniel Spiro, Johan Gars, Ao Fei, Daniel Moran, Gustav Engström, Lint Barrage, Peter Sogaard Jorgensen, Steven Lade and Sarah Cornell (SEK 19,933,485; \$2.4 million)

*National Science Foundation* award, research project “Leakage from Environmental Regulation: Evidence from Smog Check and Used Vehicle Trade”, 2015-2018, with Joseph Shapiro (\$426,357)

## **CONFERENCE AND SEMINAR PRESENTATIONS**

- 2026 Washington State University
- 2025 Columbia University (Sustainable Development), Cornell University, London School of Economics, Northeast Workshop on Energy Policy and Environmental Economics (Yale), UC Berkeley (Energy Institute at Haas), University of British Columbia, University of Maryland ARE, Villanova University
- 2024 EAERE Conference (Leuven), SUNY Albany, Tulane University, UC Santa Barbara, University of Cambridge, University of Delaware, University of Oxford
- 2023 AERE Conference, Penn State, Dallas Fed, Georgia Tech, London School of Economics, UC Berkeley (Energy Institute at Haas)

- 2022 Mannheim Conference on Energy and the Environment 2022 (keynote lecture), Resources for the Future, UC Berkeley (Energy Institute at Haas), University of Hamburg, VU Amsterdam/Tinbergen Institute
- 2021 AERE Conference, European Meeting of the Urban Economics Association, LSE and Imperial College Workshop in Environmental Economics, Stanford University, UC Berkeley (Energy Institute at Haas), University of Mannheim, U.S. Environmental Protection Agency, U.S. EPA/RFF Conference on Retroactive Analysis of Environmental Regulation
- 2020 ASSA Conference (San Diego), Duke/RFF Transportation Workshop (virtual), NBER EEE (virtual), University of Chicago EPIC (virtual), ETH Zurich/Grenoble École de Management/European Institute on Economics and the Environment (virtual), Berkeley-Harvard-Yale Environmental Economics seminar (virtual), University of Pennsylvania (Energy Economics & Finance seminar; virtual)
- 2019 AERE Conference (Lake Tahoe), NHH Bergen, Simon Fraser University, Stanford University, UC Berkeley (Energy Institute at Haas), UC Davis (joint Economics/ARE), University of Southern California, Uppsala University, VU Amsterdam
- 2018 ASSA Conference (Philadelphia), Michigan State University, International Monetary Fund, UC Berkeley (Energy Institute at Haas), University of Pennsylvania (Energy Economics & Finance seminar)
- 2017 AERE Conference (Pittsburgh), Colorado School of Mines, Cornell University, National Tax Association Conference (Philadelphia), Northeast Workshop in Environmental Economics (Dartmouth), UC Berkeley (Energy Institute at Haas), University of Cambridge, University of Oxford, University of Pennsylvania (Energy Economics & Finance seminar), VU Amsterdam, World Bank
- 2016 ASSA Conference (San Francisco), UC Berkeley (Energy Institute at Haas), UC Berkeley (Agricultural and Resource Economics), Stanford MS&E, Yale, UC San Diego, University of Pennsylvania (EnerFront seminar), University of Virginia
- 2015 AERE Conference (San Diego), ASSA Conference (Boston), INSEAD, London School of Economics/University College London (joint seminar), Imperial College London, Toulouse School of Economics, Wharton IGEL, Northeast Workshop in Environmental Economics (Yale), MIT CEEPR
- 2014 IAEE Conference (New York), AERE/EAERE Conference (Istanbul), UC Berkeley (Energy Institute at Haas), ETH Zurich, VU Amsterdam, LMU Munich, Resources for the Future, Fordham University
- 2013 Yale FES, NBER EEE (Boston), AERE Conference (Banff), UC Berkeley (Energy Institute at Haas), EAERE Conference (Toulouse), IAEE Conference

(Düsseldorf), Duke/NCSU, Wharton IGEL, World Bank, University of Texas at Austin

- 2012 Columbia University (School of International and Public Affairs), Cornell University, London School of Economics, European Bank for Reconstruction and Development, University of Chicago (Harris School of Public Policy Studies), The Wharton School, UC Berkeley (Haas School of Business), UC Davis (ARE), University of Maryland (ARE), Toulouse School of Economics, Sciences Po, Universitat Pompeu Fabra, University of Oxford, USAEE North American Conference (Austin, TX), University of Michigan, World Bank
- 2011 World Bank – Development Research Group, Resources for the Future
- 2010 UC Berkeley (Energy Institute at Haas), Occasional Workshop on Environmental and Resource Economics (UC Santa Barbara)
- 2009 IAEE International Conference (San Francisco)
- 2007 IAEE European Conference (Florence), Shell Long-Term Energy Scenarios Conference (The Hague)
- 2006 IAEE International Conference (Berlin), British Institute for Energy Economics Conference (University of Oxford)

### **REFEREING**

2021 – Editorial Council, *Journal of the Association of Environmental and Resource Economists*

2022 – Board of Editors, *American Economic Journal: Economic Policy*

2023 – Editorial Council, *Journal of Environmental Economics and Management*

American Economic Review, American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, American Journal of Agricultural Economics, Climate Change Economics, Climatic Change, Economics Letters, Energy Economics, European Research Council, Journal of Environmental Economics and Management, Journal of the European Economic Association, Journal of Policy Analysis and Management, Journal of Public Economics, Journal of Political Economy, Journal of the Association of Environmental and Resource Economists, Journal of Urban Economics, Management Science, National Science Foundation, Nature Energy, Oxford Development Studies, Regional Science and Urban Economics, Resource and Energy Economics, Review of Economic Dynamics, Review of Economic Studies, Review of Economics and Statistics, Review of Finance, Scandinavian Journal of Economics, Sloan Foundation, The Energy Journal

*AEJ Policy* Excellence in Reviewing Award 2019-2020

## **DOCTORAL STUDENTS**

1. Jacquelyn Pless, Colorado School of Mines, Committee Member, graduation year 2016, placement: MIT Sloan (Technological Innovation, Entrepreneurship, and Strategic Management group) after postdoc at University of Oxford
2. Jin Soo Han, Wharton, Committee Member, graduation year 2017, placement: Korea Advanced Institute of Science and Technology after postdoc at Cornell University
3. Gabrielle Vasey, Penn Economics, Committee Member, graduation year 2021, placement: Concordia University after postdoc at Harvard Kennedy School
4. Jonah Rexer, Wharton, Committee Member, graduation year 2021, placement: World Bank after postdoc at Princeton's School of Public and International Affairs
5. Bo Cheng, Wharton, Committee Chair, graduation year 2022, placement: AECOM
6. Angela Gunn, Wharton, Committee Chair, graduation year 2022, placement: The Brattle Group
7. Felipe Flores-Golfin, Wharton, Committee Member, graduation year 2022, placement: Cornerstone Research
8. Philip Mulder, Wharton, Committee Member, graduation year 2022, placement: University of Wisconsin after postdoc at U.S. Treasury
9. Prakash Mishra, Wharton, graduation year: 2025, placement: Caltech after postdoc at Dartmouth
10. Benji Edelstein, Wharton, Committee Member, graduation year 2025, placement: Loyola University Chicago.
11. Peter Lugthart, Wharton, Committee Chair (expected graduation year: 2027)
12. Eliana Sena Sarmiento, Penn Economics, Committee Member (expected graduation year: 2027)

## **MEDIA**

For a complete list of op-eds, policy brief, media mentions, and interviews, please visit <http://www.arthurvanbenthem.com/inthenews.html>.

## **PROFESSIONAL MEMBERSHIPS**

American Economic Association (AEA), Association of Environmental and Resource Economists (AERE), European Association of Environmental and Resource Economists (EAERE), International Association of Energy Economics (IAEE)