

## Alberto Salvo

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<https://fass.nus.edu.sg/ecs/people/alberto-salvo/>

### ACADEMIC POSITIONS

National University of Singapore

- Associate Professor, Department of Economics (since 2013, tenured in 2019)
- Dean's Chair, Faculty of Arts and Social Sciences (2022-2025)
- Member, University Sustainability and Climate Action Council (since 2022)
- Associate Director, Global Asia Institute (since 2020)
- Research Affiliate, Sustainable and Green Finance Institute (since 2022)

Northwestern University

- Assistant Professor, Department of Strategy, Kellogg School of Management (2005-2013)
- Research Affiliate, Center for the Study of Industrial Organization (2005-2013)
- Affiliated Faculty Member, Transportation Center (2010-2013)

### EDITORIAL SERVICE

Co-editor, Journal of the Association of Environmental and Resource Economists (JAERE)

- Since 2023

Member of the Editorial Council, Journal of Environmental Economics and Management (JEEM)

- Since 2021

### EDUCATION

PhD in Economics, London School of Economics, July 2005

- Research Affiliate at the Suntory-Toyota International Center for Economics (2001-2005)
- Advisee to Professors John Sutton and Peter Davis
- Thesis Title: "Price Competition, Mergers and Structural Estimation in Oligopoly"

MSc in Economics, London School of Economics, July 2000

- Gained *Distinction*

BEng in Industrial Engineering, University of São Paulo (EP-USP), 1995

- Ranked 3rd place among 550 students (*top 1%*) – Conde Armando Álvares Penteado Award, among others

## RESEARCH INTERESTS & CURRENT PROJECTS

Environmental & Energy Economics, Industrial Organization (Industrial Economics), and Applied Microeconomics in general.

I study how the behavior and incentives of economic agents, such as households, workers, and firms, interact with scarce environmental resources, such as climate, urban air, water, and land use.

Ongoing projects relate to households' awareness of the climate crisis, personal emissions accountability, and individual action. I am testing whether non-judgmental and private disclosure of emissions to individuals, in their roles as consumers and workers, can shape environmental preferences and widen citizen support for climate investments.

In my view, the gap in public understanding and engagement is the mother of all gaps when it comes to solving the climate crisis, for example, through behaviors that enable the implementation of technological solutions. I am interested in education campaigns across different consumption domains such as protein food, private car travel, public transport, air travel, residential utilities, and land use & forestry change.

As an environmental economist and behavioral social scientist, I collaborate across disciplines, including atmospheric sciences, food science & technology, environmental health, consumer psychology, marketing, transport engineering, and strategic communication. My work focuses on Asia's under-studied and globally critical environment and society. I increasingly try to leave the ivory tower and do environmental advocacy work with partners in industry, civil society, and government.

Beyond NUS, I am a Co-editor at the Journal of the Association of Environmental and Resource Economists and a Member of the Editorial Council at the Journal of Environmental Economics and Management.

## PEER-REVIEWED RESEARCH ARTICLES

### Environmental & Energy Economics

1. Fesselmeyer, E., H. Liu, A. Salvo, and R. Simorangkir (2024). "Heat and Observed Economic Activity in the Rich Urban Tropics," *Economic Journal*, 134, 664, pp. 3445-3460, DOI 10.1093/ej/ueae046
2. Salvo, A., Q. Tang, J. Yang, P. Yin, and M. Zhou (2024). "Fine-particulate Air Pollution and Behaviorally Inclusive Mortality Impacts of China's Winter Heating Policy, 2013-2018," *Journal of Environmental Economics and Management*, 124, 102945, DOI 10.1016/j.jeem.2024.102945
3. Liu, H., J. Lu, and A. Salvo (2023). "Willingness to Fight on: Environmental Quality in Dynamic Contests," *RAND Journal of Economics*, 54(2), pp. 189-239, DOI 10.1111/1756-2171.12435
4. Chew, S. H., H. Liu, and A. Salvo (2021). "Adversity-Hope Hypothesis: Air Pollution Raises Daily Lottery Demand in China," *Journal of Risk and Uncertainty*, 62, pp. 247-280, DOI 10.1007/s11166-021-09353-w
5. Fesselmeyer, E., H. Liu, and A. Salvo (2021). "Declining Discount Rates in Singapore's Market for Privately Developed Apartments," *Journal of Applied Econometrics*, 37(2), pp. 330-350, DOI 10.1002/jae.2867
6. Chu, J., H. Liu, and A. Salvo (2020). "Air Pollution as a Determinant of Food Delivery and Related Plastic Waste," *Nature Human Behaviour*, 5, pp. 212-220, DOI 10.1038/s41562-020-00961-1
7. Salvo, A. (2020). "Local Pollution as a Determinant of Residential Electricity Demand," *Journal of the Association of Environmental and Resource Economists*, 7(5), pp. 837-872, DOI 10.1086/709533
  - This paper won the Journal of the Association of Environmental and Resource Economists' *Best Paper Award for 2020*, awarded by the Association of Environmental and Resource Economists

8. Fong, L. S., A. Salvo and D. Taylor (2020). “Evidence of the Environmental Kuznets Curve for Atmospheric Pollutant Emissions in Southeast Asia and Implications for Sustainable Development: A Spatial Econometric Approach,” *Sustainable Development*, 28(5), pp. 1441-1456, DOI 10.1002/sd.2097  
- L. S. Fong and D. Taylor are geographers
9. He, J., H. Liu and A. Salvo (2019). “Severe Air Pollution and Labor Productivity: Evidence from Industrial Towns in China,” *American Economic Journal: Applied Economics*, 11(1), pp. 173-201, DOI 10.1257/app.20170286
10. He, J., N. Gouveia and A. Salvo (2019). “External Effects of Diesel Trucks Circulating inside the São Paulo Megacity,” *Journal of the European Economic Association*, 17(3), pp. 947-989, DOI 10.1093/jeea/jvy015  
- N. Gouveia is an epidemiologist
11. Salvo, A. (2018). “Electrical Appliances Moderate Households’ Water Demand Response to Heat,” *Nature Communications*, 9(5408), pp.1-14, DOI 10.1038/s41467-018-07833-3  
- Nature Communications’ 2017 impact factor is 12.4 (compare to Nature’s 41.6 and PNAS’ 9.4)
12. Liu, H. and A. Salvo (2018). “Severe Air Pollution and Child Absences When Schools and Parents Respond,” *Journal of Environmental Economics and Management*, 92, pp. 300-330, DOI 10.1016/j.jeem.2018.10.003
13. Salvo, A. (2018). “Flexible Fuel Vehicles, Less Flexible Minded Consumers: Price Information Experiments at the Pump,” *Journal of Environmental Economics and Management*, 92, pp. 194-221, DOI 10.1016/j.jeem.2018.08.016
14. Salvo, A.\*, J. Brito, P. Artaxo and F. M. Geiger (2017). “Reduced Ultrafine Particle Levels in São Paulo’s Atmosphere during Shifts from Gasoline to Ethanol Use,” *Nature Communications*, 8(77), pp. 1-14, DOI 10.1038/s41467-017-00041-5 (\*PI and corresponding author)  
- J. Brito and P. Artaxo are atmospheric physicists, F. M. Geiger is an atmospheric chemist  
- Nature Communications’ 2017 impact factor is 12.4 (compare to Nature’s 41.6 and PNAS’ 9.4)
15. Salvo, A. and Y. Wang (2017). “Ethanol-Blended Gasoline Policy and Ozone Pollution in São Paulo,” *Journal of the Association of Environmental and Resource Economists*, 4(3), pp. 731-794, DOI 10.1086/691996
16. Salvo, A.\* and F. M. Geiger (2014). “Reduction in Local Ozone Levels in Urban São Paulo Due to a Shift from Ethanol to Gasoline Use,” *Nature Geoscience*, 7(6), pp. 450-458, DOI 10.1038/ngeo2144 (\*PI and corresponding author)  
- Cover-page article, also featured in the accompanying “News and Views” article by S. Madronich (2014). “Atmospheric Chemistry: Ethanol and Ozone,” *Nature Geoscience*, 7(6), pp. 395-397  
- F. M. Geiger and S. Madronich are atmospheric chemists  
- Nature Geoscience’s 2017 impact factor is 14.4 (compare to Nature’s 41.6 and PNAS’ 9.4)
17. Salvo, A. and C. Huse (2013). “Build It, But Will They Come? Evidence from Consumer Choice between Gasoline and Sugarcane Ethanol,” *Journal of Environmental Economics and Management*, 66(2), pp. 251-279, DOI 10.1016/j.jeem.2013.04.001
18. Salvo, A. and C. Huse (2011). “Is Arbitrage Tying the Price of Ethanol to that of Gasoline? Evidence from the Uptake of Flexible-Fuel Technology,” *Energy Journal*, 32(3), pp. 119-148, DOI 10.5547/ISSN0195-6574-EJ-Vol32-No3-5

### **Industrial Organization**

19. Eizenberg, A. and A. Salvo (2015). “The Rise of Fringe Competitors in the Wake of an Emerging Middle Class: An Empirical Analysis,” *American Economic Journal: Applied Economics*, 7(3), pp. 85-122, DOI 10.1257/app.20130104
20. Deltas, G., A. Salvo and H. Vasconcelos (2012). “Consumer-Surplus-Enhancing Collusion and Trade,” *RAND Journal of Economics*, 43(2), pp. 315-328, DOI 10.1111/j.1756-2171.2012.00167.x

21. Salvo, A. (2010). “Inferring Market Power under the Threat of Entry: The Case of the Brazilian Cement Industry,” *RAND Journal of Economics*, 41(2), pp. 326-350, DOI 10.1111/j.1756-2171.2010.00102.x
  - A manuscript version won an *Antitrust Policy Award* from the Brazilian Ministry of Finance in 2007.
22. Salvo, A. (2010). “Trade Flows in a Spatial Oligopoly: Gravity Fits Well, But What Does it Explain?,” *Canadian Journal of Economics*, 43(1), pp. 63-96, DOI 10.1111/j.1540-5982.2009.01564.x
  - This paper won the *Robert Mundell prize* for the best article by a young economist published in 2010 in the Canadian Journal of Economics, awarded by the Canadian Economics Association.
23. Salvo, A. (2010). “Sequential Cross-border Mergers in Models of Oligopoly,” *Economica*, 77(306), pp. 352-383, DOI 10.1111/j.1468-0335.2008.00754.x
24. Salvo, A. (2009). “Cut-throat Fringe Competition in an Emerging Country Market: Tax Evasion or the Absence of Market Power?,” *Journal of Industrial Economics*, 57(4), pp. 677-711, DOI 10.1111/j.1467-6451.2009.00400.x
  - This paper won a *Young Economists’ Essay Award* from the European Association for Research in Industrial Economics (in 2007).

## MANUSCRIPTS UNDER REVIEW

[OMITTED]

## PUBLISHED BOOK CHAPTERS, POLICY PAPERS, AND TEACHING ARTICLES

1. Deltas, G., A. Salvo and H. Vasconcelos (2012). “Social-Welfare-Enhancing Collusion and Trade.” In: *Recent Advances in the Analysis of Competition Policy and Regulation*, edited by Joseph E. Harrington, Yannis Katsoulacos, and Pierre Regibeau, pp. 140-160, DOI 10.4337/9781781005699.00013. Edward Elgar Publishing
2. Salvo, A. (2008). “A Cautionary Note on the Applicability of the Bresnahan-Lau Framework.” *Revista de Direito da Concorrência*, 18 (special edition on cartels), pp. 11-59 [In Portuguese, prepared for the Administrative Council for Economic Defense—CADE, Brazilian Ministry of Justice]
3. Huse, C. and A. Salvo (2006). “Estimation and Identification of Demand and Supply.” In: *Quantitative Methods Applied to Antitrust and Regulation*, edited by Eduardo P. S. Fiuza and Ronaldo Seroa da Motta (Instituto de Pesquisa Econômica Aplicada, IPEA), pp. 23-151. Brasília: SDE (Ministry of Justice) [In Portuguese]
4. Salvo, A. and D. F. Spulber (2006). “Cemex: International Market Maker in Cement.” *Journal of Strategic Management Education*, 3, pp. 1-24

## DORMANT PROJECTS

1. “Cash-Constrained Households and Product Size,” with Tiago Pires, Working Paper

## TEACHING POSITIONS AND RECOGNITION

### Undergraduate

“Environmental Economics & Policy” and “Environmental Economics”, Department of Economics, National University of Singapore, since 2013

- Nominated for “Best Teaching” by 189 out of 518 (36%) students who completed evaluations over nine years (total enrollment: 846)
- Faculty of Arts and Social Sciences Teaching Excellence Award, NUS, 2023

- Economics Department Excellent Teacher Award, NUS, 2020

“Microeconomic Principles II,” Department of Economics, London School of Economics, 2000/01 to 2002/03, as a Teaching Assistant to Professor Frank Cowell

- Recipient of the Department of Economics Quality Teaching Award in two of the three years taught (2000/01, 2002/03)

### PhD

“Economics of the Environment” and “Empirical Industrial Organization,” Department of Economics, National University of Singapore, since 2013

- Nominated for “Best Teaching” by 15 out of 23 (65%) students who completed evaluations (total enrollment: 25). Students did not complete evaluations in 2014/15 and 2015/16.

### MBA

“International Business Strategy,” Kellogg School of Management, Northwestern University, 2006-2013

- Nominee for Kellogg’s L. G. Lavengood Outstanding Professor of the Year Award in four of the eight years taught (2006/07, 2008/09, 2009/10, 2010/11)
- A distinction in the form of a letter from Kellogg’s Dean in August 2011 placing my “overall performance (in the top 20 percent among all Kellogg faculty for the Spring Quarter of 2011 as measured by the Teacher-Course Evaluations.”

### Summer Course

“Industrial Organization and Antitrust Policy,” London School of Economics, 2003-2005

- After the first year as a Teaching Assistant to Professor Roman Inderst, I was offered a position as a lecturer for the two subsequent years.

## HONORS, AWARDS, GRANTS, SCHOLARSHIPS, AND FELLOWSHIPS

2024-28	Lead PI for the Consumer Behavior and Communications platform, Bezos Centre for Sustainable Protein at NUS. Amount: SG\$ 600,000
2024-25	PI, Lloyd’s Register Foundation Institute for the Public Understanding of Risk (IPUR) Seed Fund. Project: “Gamifying and carbon scoring urban mobility for a greener Singapore: A randomized control trial.” Amount: SG\$ 20,000
2023	Faculty of Arts and Social Sciences Teaching Excellence Award, NUS
2023-24	PI, Humanities and Social Sciences Seed Fund. Project: “Reducing the carbon content in food through a mix of climate-health information and pricing incentives: Field experiments in local consumer markets.” Amount: SG\$ 40,000
2022-25	Dean’s Chair in the Faculty of Arts and Social Sciences, NUS
2022-25	Co-I, Singapore Food Story R&D Programme. Project: “Consumers’ risk perceptions, rational, and implicit considerations in alternative protein acceptance behaviors.” PI: May Lwin, Nanyang Technological University.
2022-27	Collaborator, Singaporean Ministry of Education Social Science Research Council. Project: “Climate Governance of Nature-based Carbon Sinks in Southeast Asia.” PI: David Taylor, Geography.
2021	Best Paper Award for 2020 (Ralph C. d’Arge and Allen V. Kneese Award for Outstanding Publication), Journal of the Association of Environmental and Resource Economists
2020	Economics Department Excellent Teacher Award, NUS
2020-23	PI, Singaporean Ministry of Education Academic Research Fund Tier 1. Project: “Measuring Commuter Preference for Electric Buses.” Amount: SG\$ 168,426.
2019-22	PI, Singaporean Ministry of Education Academic Research Fund Tier 1. Project: “How Do Weather Shocks Impact Singaporeans?” Amount: SG\$ 125,025.
2019	“Sustainability” award in recognition of research conducted on this theme, Society of Automotive Engineers, Brazilian branch

- 2017-22 Collaborator, Singaporean Ministry of Education Social Science Research Council. Project: “Sustainable governance of transboundary environmental commons in Southeast Asia.” PIs: David Taylor and Jonathan Rigg, Geography.
- 2017-20 Collaborator, Singaporean Ministry of Education Academic Research Fund Tier 1. Project: “Economic growth and environmental quality in a tropical Asian megacity.” PI: David Taylor, Geography.
- 2016-19 Collaborator, Singaporean Ministry of Education Academic Research Fund Tier 2. Project: “New evaluation of the socio-ecological impacts of global agricultural trade.” PI: Roman Carrasco, Biological Science.
- 2015-18 PI, Singaporean Ministry of Education Academic Research Fund Tier 1. Project: “Slow household adoption of air conditioning by abating local air pollution.” Amount: SG\$ 67,000.
- 2015-17 co-PI, Singaporean Ministry of Education Academic Research Fund Tier 1. Project: “Severe outdoor air pollution and indoor labor productivity.” Amount: SG\$ 110,000.
- 2015-16 PI, Humanities and Social Sciences Seed Fund. Project: “Air pollution and physiological and behavioral drivers of school absences: Evidence from schools in China.” Amount: SG\$ 36,000.
- 2014-15 PI, Singaporean Ministry of Education Academic Research Fund Tier 1. Project: “Exploiting the 2008/09 trade fluctuation to assess air quality in the Pearl River Delta.” Amount: SG\$ 85,371.
- 2013-16 National University of Singapore, Faculty of Arts and Social Sciences Start-up Grant. Project: “Air and ground traffic, meteorology, air pollution and public health in the megacity of São Paulo.” Amount: SG\$ 60,000.
- 2011-13 PI, Research Booster Grant, Initiative for Sustainability and Energy at Northwestern University, matching funds by the General Motors Research Center for Strategy in Management, the Center for Research in Technology & Innovation, and the Zell Center for Risk Research. Project: “Fuel mix and air quality.” Amount: US\$ 111,320.
- 2011 Robert Mundell prize for the best article in the Canadian Journal of Economics in 2010 by a young economist
- 2007 Young Economists’ Essay Award. European Association for Research in Industrial Economics, EARIE
- 2007 Antitrust Policy Essay Award, 3<sup>rd</sup> place. SEAE, Ministry of Finance, Brazil
- 2003 Quality Teaching Award. Department of Economics, London School of Economics
- 2001-2004 CAPES Research Fellowship. Ministry of Education, Brazil
- 2001 Quality Teaching Award. Department of Economics, London School of Economics
- 2000-2001 LSE Research Fellowship. Department of Economics, London School of Economics
- 1999 Winner (Top 5%) of the European Campus Competition. Barclays Capital, Europe
- 1999-2000 British Chevening Scholarship. Foreign & Commonwealth Office, UK
- 1994 Conde Armando Alvares Penteado Award for 3<sup>rd</sup> Rank in the School. EP-USP, São Paulo
- 1994 Otto Ruprecht Bekman Award for Best Dissertation in the Department. EP-USP, São Paulo
- 1994 Gastão Vidigal Award to Top Economics Student. GV Foundation for Economic Research, São Paulo
- 1993 Unibanco Award for Academic Distinction. Unibanco Bank, São Paulo
- 1991-1994 Garantia Award for Academic Distinction. Garantia Investment Bank, São Paulo

## VISITORSHIPS

Yale School of Management, Yale University  
- July 2009 - June 2010

## RESEARCH PRESENTATIONS & INVITED WORKSHOPS

- 2025 Joint Economics Symposium of Six Leading East Asian Universities on Climate Change, Human Capital, and Economic Development in Asia (NUS), Multidisciplinary symposium on Empowering Consumers for Health Outcomes (University of Melbourne)
- 2024 Bridging Transportation Researchers (BTR#6) Online Conference, Fundação Getulio Vargas (EESP), Institute for the Public Understanding of Risk (research keynote @ NUS Sustainability CONNECT), Hong Kong University Beijing Center/Tsinghua University (4th Environmental Economics Frontier Research Forum)

- 2023 Conference on Energy and the Environment (ZEW, University of Mannheim), Behavioral Economics workshop (NUS), Hong Kong University Beijing Center/Tsinghua University (3th Environmental Economics Frontier Research Forum), Jinan University (Institute for Economic and Social Research), JEEM special issue conference (Hong Kong University)
- 2021-22 (All virtual) University of Miami, University of Oldenburg, Insper Institute, Toulouse School of Economics, Asia Pacific Industrial Organization Conference (APIOC)
- 2019 Allied Social Sciences Associations meetings, Western Economic Association International Conference (Keio University), Environment and Climate Workshop (Peking University), Jinan University (Institute for Economic and Social Research), Economics of Energy and Climate Conference (University of Toulouse), University of Manitoba, University of Ottawa, Cornell University
- 2018 Allied Social Sciences Associations meetings, Economics of Energy, Environment and Climate Workshop (Peking University), IZA Environment and Labor Markets Workshop, World Congress of Environmental and Resource Economists, Brookings Tsinghua Center Conference, Economics of Low-Carbon Markets Workshop (University of São Paulo)
- 2017 Allied Social Sciences Associations meetings, Duke University, University of California at Santa Barbara, Singapore Economic Policy Forum, University of California at Davis, Economics of Low-Carbon Markets Workshop (University of São Paulo), Policy Forum on Ozone Pollution Control (University of São Paulo with CETESB)
- 2016 National ChengChi University, Hitotsubashi University, Economics of Low-Carbon Markets Workshop (University of São Paulo)
- 2015 Allied Social Sciences Associations meetings, NBER China Spring Meeting, Columbia University, Workshop on Energy Policy and Environmental Economics at Yale University, University of Chicago (EPIC), Conference of the Association of Environmental and Resources Economists, Frontiers of Behavioral Economics (Energy, Environment and Public Services panel), Society for Risk Analysis World Congress, University of Melbourne
- 2014 Allied Social Sciences Associations meetings, International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions (HKUST), NTU Environmental Workshop
- 2013 Allied Social Sciences Associations meetings, Yale-NUS College, INSEAD, National University of Singapore (joint Economics Dept/Business School), University of Massachusetts at Amherst, Workshop on Energy Policy and Environmental Economics (Cornell University), Asian Meeting of the Econometric Society (NUS), Chinese University of Hong Kong
- 2012 State of São Paulo's Environmental Authority (CETESB), Hebrew University of Jerusalem, Advanced Research Projects Agency—Energy Workshop, Energy Institute at UC Berkeley, Northwestern University (Kellogg Marketing), Northwestern-Toulouse Conference, Energy Camp at UC Berkeley, NBER Summer Institute—IO (new format, co-author presented), Marketing Science Emerging Markets Conference (Wharton), Meetings of the Brazilian Econometric Society, Hong Kong University of Science & Technology
- 2011 Allied Social Sciences Associations meetings, Northwestern University (Transportation Center), Columbia University (Economics/GSB), University of California-Berkeley Bioeconomy Conference, International Industrial Organization Conference, Iowa State Bioenergy Camp, North American Summer Meetings of the Econometric Society, University of Illinois at Urbana-Champaign (ACE)
- 2010 Yale University (International Trade), Illinois Economics Association (DePaul University)
- 2009 Utah Winter Business Economics Conference, International Industrial Organization Conference (Northeastern University), Yale University (Summer Applied Micro Workshop), Yale School of Management (Faculty Seminar—Visitor)
- 2008 Brazilian Antitrust Authority (CADE), International Industrial Organization Conference, Canadian Economics Association (UBC), K.U. Leuven, Southern Economic Association
- 2007 Allied Social Sciences Associations meetings, Purdue University, UC at Berkeley, International Industrial Organization Conference (Georgia Tech), DePaul University, NBER Summer Institute—IO (Discussant: Mark Roberts), EARIE (University of Valencia), Washington University (Olin)
- 2006 Meetings of the Brazilian Econometric Society, Institute for Applied Economic Research (IPEA), Carnegie Mellon University (Heinz/Tepper), EARIE (University of Amsterdam), North American Summer Meetings of the Econometric Society (University of Minnesota), International Industrial Organization Conference (Northeastern University)
- 2005 University of Illinois at Urbana-Champaign, Institute for Fiscal Studies, Fundação Getulio Vargas (EESP and EPGE), PUC Rio, Brazilian Antitrust Authorities (CADE and SDE), Northwestern University (Kellogg),

Northeastern University, NYU Stern, UBC Sauder, University of Warwick, Università Bocconi, Universitat Pompeu Fabra  
2004 Meetings of the Brazilian Econometric Society, London School of Economics

## REFEREEING ACTIVITIES

Referee for *American Economic Review*; *American Economic Journal: Applied Economics*; *American Economic Journal: Economic Policy*; *American Journal of Agricultural Economics*; *Brazilian Review of Econometrics*; *China Economic Review*; *Economica*; *Economic Inquiry*; *Economic Journal*; *Economics Bulletin*; *Energy Journal*; *Environmental Science & Technology*; *European Economic Review*; *Information Economics and Policy*; *International Journal of Industrial Organization*; *International Tax and Public Finance*; *Journal of Applied Econometrics*; *Journal of the Association of Environmental and Resource Economists*; *Journal of Economic Behavior and Organization*; *Journal of Economics and Management Strategy*; *Journal of Environmental Economics and Management*; *Journal of the European Economic Association*; *Journal of Human Resources*; *Journal of Industrial Economics*; *Journal of the Japanese and International Economies*; *Journal of Law, Economics, & Organization*; *Journal of Political Economy*; *Journal of Public Economics*; *Land Economics*; *National Science Foundation*; *Oxford Economic Papers*; *Quarterly Journal of Economics*; *RAND Journal of Economics*; *Review of Economics Studies*; *Review of Environmental Economics and Policy*; *Review of Industrial Organization*; *Singapore Ministry of Education*; *Social Sciences and Humanities Research Council of Canada*; *Southern Economic Journal*; *Sustainability*; *Transportation Research Part D: Transport and Environment*

## OTHER PROFESSIONAL ACTIVITY

Advisor to Post-doctoral fellows:

Rhita Simorangkir (2019-2021, NUS)

Jiaxiu He (2013-2016, Northwestern and NUS), Post-doctoral fellow at the Ivey School of Business, University of Western Ontario

Advisor to PhD students:

Zhihao Han (2022-, NUS)

Hongyan Li (2019-2023, NUS)

Ziqiu Ye (2015-2020, NUS)

Duong Hai Long (2013-2017, NUS), Post-doctoral fellow at NUS Business School (under bond requirement to remain in Singapore)

Wang Yi (2013-2017, NUS), Post-doctoral fellow at NUS Saw Swee Hock School of Public Health (under bond requirement to remain in Singapore)

University/Departmental Service

2022-: Member of the University Sustainability and Climate Action Council, NUS

2022-: Research Affiliate, Sustainable and Green Finance Institute, NUS

2020-: Associate Director, Global Asia Institute, NUS

2024-: Member, Faculty Promotion and Tenure Committee I, NUS FASS

2021-, 2014-2016: Research Committee (Chair since 2021), NUS Economics

2021-2024: Deputy Head (Research), NUS Economics

2020-2022: Program Committee, MSc Environmental Management, NUS, FASS Representative

2019-2020: Senior Search Committee, NUS Economics

2018-2020, 2015-2016: Junior Search Committee, NUS Economics

2014-2020: Singapore Centre for Applied and Policy Economics (SCAPE), NUS Economics

2014-2020: Environment Research Cluster Steering Committee, NUS

2019-2020: Acting Chairperson to the Environment Research Cluster Steering Committee, NUS

2014-2018: Examination Matters Committee, Level 3000/Applied Economics Coordinator, NUS Economics

2008-2009, 2011-2012: Co-organizer of the Strategy seminar, Northwestern Kellogg



Co-Editor, Journal of the Association of Environmental and Resource Economists (JAERE), 2023-

Member of the Editorial Council, Journal of Environmental Economics and Management (JEEM), 2021-

Pan Asia Pacific Sustainability Initiative, University of Wisconsin-Madison, External affiliated faculty, 2023-

Cornell Institute for China Economic Research, Cornell University, External affiliated faculty member, 2018-2020

Organized and chaired a “Special Session” on “Climate Damage from Aviation & Pricing & Non-Pricing Approaches to Mitigate Damage” at the 6th Bridging Transportation Researchers (BTR#6) Online Conference, held in 2024. The session unusually bridged both the climate science and the policy/human behavior perspective regarding a key economic sector that accounts for a fast-growing share of anthropogenic emissions.

Member of the Selection Committee for: the Asian Meeting of the Econometric Society 2023; the Economics of Low-Carbon Markets Workshops 2013-2019 & 2023, the Meeting of the Brazilian Econometric Society 2006.

Organized a “Symposium” on “Environmental and Energy Economics and Policy: Local and Global Pollution and Health” at the 27<sup>th</sup> Conference of the International Society for Environmental Epidemiology, held in São Paulo in 2015.

Advisor and Instructor to the Brazilian Government on Antitrust Policy

2004-2006: Secretariat for Economic Law (SDE, Ministry of Justice)

2007-2008: Administrative Council for Economic Defense (CADE, Ministry of Justice)

## **SELECTED MEDIA COVERAGE OF MY RESEARCH**

TODAY, 5/18/2024, by Nikki Yeo: As temperatures rise, low-income families in rental units struggle to beat the heat

Lianhe Zaobao, 8/25/2023, by Chua Wei Qian: 水供成本压力加剧 我国须为水供准确定价

Lianhe Zaobao, 6/25/2023, by Chua Wei Qian: 说法识法: 当碳定价法延伸到日常生活

The Business Times, 3/29/2023, by Wong Pei Ting: Asean’s place in a ‘dramatically altered’ world.

NUS News, 3/28/2023, Carbon scorecards for individuals, ESG and supply chain resilience take spotlight at Wee Cho Yaw Business Forum

TODAY, 8/18/2022, by Navene Elangovan: What will persuade S’poreans to adopt electric vehicles? Study launched to identify most effective ‘nudges’

Straits Times, 8/18/2022, by Aqil Hamzah: OCBC-NUS study to look into what would make Singaporeans buy electric vehicles

The Business Times, 8/18/2022, by Wong Pei Ting: OCBC expects fledgling electric vehicle loan business to more than triple by year-end. Bank teams up with NUS to study ways to nudge consumers towards EV adoption

Channel NewsAsia, News (recorded interview), 8/18/2022: Adoption of electric vehicles: NUS, OCBC Bank launch study to explore how to nudge drivers towards EVs

The Business Times, 9/8/2021, by Nisha Ramchandani: Freehold’s premium may provide clue on valuing infrastructure spend

NUS Business School on YouTube, 10/22/2020: <https://www.youtube.com/watch?v=K7M8AFvBEoE>

International Business Times, 10/20/2020, by A. Chan: How Air Pollution Can Increase Food Deliveries, Plastic Waste

Channel NewsAsia, First Look Asia (live breakfast TV interview), 1/10/2019: Severe air pollution affects worker productivity

Straits Times, 1/3/2019, by J. Seow: Prolonged exposure to air pollution lowers worker productivity: NUS study

TODAY, 1/3/2019, by Wong Pei Ting: Feeling less productive? Blame it on the air: NUS study

Market Business News, 1/3/2019, by V. Cruz: Severe air pollution undermines worker productivity, study finds

Straits Times (print Home section, page B2), 12/21/2018, by F. Choo: Poorer families use more water to keep cool: Study

Business Insider Singapore, 12/21/2018, by S. Lim: When Singapore heats up, poorer households use more water, richer ones turn up the air-con: Study

Berita Harian (page 14), 12/21/2018: Golongan berpendapatan rendah guna banyak air semasa cuaca panas: Kajian Tamil Murasu (page 3), 12/21/2018: Poorer families use more water to keep cool: Study

Lianhe Zaobao (page 7), 12/21/2018, by Yang Yang: 研究:天气热时 低收入者多用水降温高收入家庭耗电更多

TODAY, 12/20/2018, by Wong Pei Ting: Beat the heat: More affluent households turn on air-con, lower-income ones use water

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Capital 95.8FM, 12/20/2018: 调查: 炎热天气下 收入较高家庭耗电量增加

O Estado de S.Paulo, 4/27/2018, by H. Escobar and P. Felix: Abertura de Rodoanel não alivia trânsito, mas melhora condições de saúde em São Paulo

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Jornal da Ciência (Agência Fapesp), 8/1/2017, by K. Toledo: Estudo mostra que o uso de etanol nos veículos reduz a poluição por nanopartículas

TV Globo, Jornal Nacional (Brazil's main 8pm news), 7/28/2017: Usar etanol em vez de gasolina reduz emissão de nanopartículas, diz estudo

Istoé, 7/18/2017: Estudo expõe risco da troca do etanol em São Paulo

Jornal da USP, 7/17/2017: Uso de etanol em veículos reduz a emissão de nanopartículas em São Paulo

Estadão, Blog Ambiente-se, 7/17/2017: Troca de etanol por gasolina piora poluição do ar em São Paulo

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Northwestern University Strategic Plan Progress Report 2015, Other Accomplishments of Note, p.4: Effects of Behavior at the Pump (only Kellogg research to feature in the Report)

Chemical & Engineering News (American Chemical Society), May 2014, Vol. 92, Issue 18, p.26: Ethanol Fuels Ozone Increase

Los Angeles Times, 5/1/2014, by N. Banerjee: Switch from Gasoline to Ethanol Linked to Higher Ozone Levels

Folha de S.Paulo, 4/29/2014, by R. Garcia: Álcool bate gasolina na emissão de poluente ozônio em São Paulo, indica estudo

Servicio de Información y Noticias Científicas (SINC), 4/29/2014, by S. Bailén: El uso de etanol en lugar de gasolina aumenta la contaminación por ozono en São Paulo

Spiegel Online, 4/29/2014: Smog in Brasilien: Biotreibstoff steigert Ozonbelastung in São Paulo

Nature, News, 4/28/2014, by M. Peplow: Ethanol fuels ozone pollution: Shifts in use between petrol and ethanol in São Paulo's cars creates unique atmospheric chemistry experiment, reproduced in Scientific American, 4/30/2014

Fast Company, 10/15/2012: Major Companies Start To Think Local Abroad

Morningstar, 8/27/2012: Buying Behaviors of Emerging Middle Classes

Wall Street Journal (Ideas Market blog), 7/25/2012: At the End of the Day

Financial Times, 7/13/2012: Something for the Weekend

HBR Blog, 7/11/2012: The Curious Case of the Emerging Middle Class

HBR's Morning Advantage, 7/5/2012: How to Win over Developing-World Shoppers

Science, April 2012, Vol. 336, No. 6079, pp. 292-293: Biofuels and City Air: A Marginal Effect

## **OP-ED WRITING IN THE POPULAR PRESS**

The Business Times, 9/16/2023, joint with Leonard Lee: How open data and gamification can make Singapore's urban travel greener. Providing data on the carbon footprint of transport choices can help change commuter behaviour.

Straits Times, 4/22/2022, Ask NUS Economists, joint with Sumit Agarwal: How would a person's carbon scorecard work? One way to assess the impact of your carbon choices is by tracking digital spending.

The Business Times, 3/1/2022, joint with Sumit Agarwal: Carbon scorecard: informing consumers so that they learn to do their bit. Introducing this will help people make environmentally-friendly choices.

Straits Times, 11/12/2021, Ask NUS Economists, joint with Soo Hong Chew and Haoming Liu: What has a rise in day trading and online betting to do with Covid-19? Research points to adversity-hope hypothesis - at times of adversity, demand for 'hope products' rises.

The Business Times, 9/14/2021, joint with Helena Varkkey and Michelle Miller, Are we willing to pay for ecosystem services provided by others?

TODAY, 1/22/2019, When both the rich and poor feel the heat from climate change.

Straits Times, 7/8/2015, Ask NUS Economists, joint with Jiaxiu He: Making healthy transport policies: Can transport policy reduce pollution and improve health outcomes?

Straits Times, 4/8/2015, Ask NUS Economists, joint with Eric Fesselmeyer and Haoming Liu: Using property prices to guide climate change policies.

Straits Times, 6/5/2014, Ask NUS Economists, joint with Dennis Tan: Multilateral approach to abating regional haze still apt.

### **NON-ACADEMIC EMPLOYMENT**

Procter & Gamble, Brazil, 1995-1999. Work covered competitive strategy, pricing, consumer demand, and transport.

1997 Senior (“Group”) Manager

1996 Department Manager

1995 Supervisor

### **LANGUAGES**

English, Portuguese, Spanish (fluent spoken and written)

Catalan (can understand spoken: si vols, pots parlar amb mi en català!)