

**Nori Tarui**

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**PROFESSIONAL POSITIONS**

**University of Hawai'i at Mānoa**

<b>Professor</b> Department of Economics	August 2018-
<b>Senior Advisor to the Dean on Global College Initiatives</b> College of Social Sciences	August 2018-
<b>Co-Director</b> Renewable Energy and Island Sustainability Graduate Certificate Program	May 2017-
<b>Associate Professor</b> Department of Economics, University of Hawai'i at Mānoa Graduate Chair, August 2010-July 2013	August 2010-
<b>Research Fellow</b> University of Hawai'i Economic Research Organization (UHERO)	August 2014-
<b>Assistant Professor</b> Department of Economics	2006-2010
<b>Columbia University</b>	
<b>Earth Institute Fellow</b> The Earth Institute	2004-2006

Visiting positions

<b>Visiting Associate Professor</b> Faculty of Political Science and Economics, Keio University	June 2018-August 2018
<b>Visiting Researcher</b> Research Institute for Environmental Economics and Management, Waseda University	July 2016-
<b>Guest Associate Professor</b> Faculty of Economics, Keio University	April 2016-September 2016
<b>Faculty Fellow</b> Urban Institute, Kyushu University	January 2016-
<b>Visiting Associate Professor</b> Department of Applied Economics, University of Minnesota-Twin Cities	July 2013-December 2013
<b>Visiting Associate Professor</b> Institute of Economic Research, Hitotsubashi University	January 2014-May 2014
<b>Affiliate Faculty</b> Water Resources Research Center, University of Hawai'i at Mānoa	August 2011-2017
<b>Instructor</b> School of International and Public Affairs, Columbia University	2005-2006
<b>Graduate Assistant</b> Department of Applied Economics, University of Minnesota-Twin Cities	2000-2004

**Visiting Lecturer** 2003  
Department of Agricultural Economics, University of Wisconsin-River Falls

## EDUCATION

**PhD Agricultural and Applied Economics, University of Minnesota** 2004  
**MA Economics, Keio University** 1999  
**BA Economics, Keio University** 1997  
**University of Wisconsin-Madison (exchange study)** 1995-96

## RESEARCH PAPERS

### Publications

- Smith, L. Vanessa; Tarui, Nori; Yamagata, Takashi “Assessing the impact of COVID-19 on global fossil fuel consumption and CO2 emissions,” *Energy Economics*, 97, 105170, 2021.
- Hayakawa, Kazunobu; Ishikawa, Jota; Tarui, Nori “What Goes Around Comes Around: Export-Enhancing Effects of Import-Tariff Reductions,” *Journal of International Economics*, 126, 103362, 2020.
- Ishikawa, Jota and Nori Tarui “Backfiring with Backhaul Problems: Trade and Industrial Policies with Endogenous Transport Costs,” *Journal of International Economics*, 111, 81-98, 2018.
- Mason, Charles F.; Polasky, Stephen; Tarui, Nori “Cooperation on Climate-Change Mitigation.” *European Economic Review*, 99, 43-55, 2017 (Earlier version: CESifo Working Paper No. 5698, 2016)
- Tarui, Nori “Electric utility regulation under enhanced renewable energy integration and distributed generation.” *Environmental Economics and Policy Studies*, 19(3) 503–518, 2017.
- Lynham, John, Kohei Nitta, Tatsuyoshi Saijo, Nori Tarui, “Why does real-time information reduce energy consumption?” *Energy Economics*, 54 173-181, 2016.
- Sherstyuk, Katerina, Nori Tarui, Majah-Leah V. Ravago, and Tatsuyoshi Saijo, “Inter-Generational Games with Dynamic Externalities and Climate Change Experiments.” *Journal of the Association of Environmental and Resource Economists*, 3(2) 247-281, 2016.
- Konishi, Yoshifumi and Nori Tarui, “Emissions Trading, Firm Heterogeneity, and Intra-Industry Reallocations in the Long Run.” *Journal of the Association of Environmental and Resource Economists*, 2(1) 1-42, 2015. (Earlier version available as the Center for Economic Institutions Working Paper 2014-1, Institute of Economic Research, Hitotsubashi University.)
- Yomogida, Morihiro and Nori Tarui “Emission Taxes and Border Tax Adjustments for Oligopolistic Industries.” *Pacific Economic Review*, 18 (5) 644–673, 2013.
- Sherstyuk, Katerina, Nori Tarui, and Tatsuyoshi Saijo “Payment schemes in infinite-horizon experimental games.” *Experimental Economics*, 16 (1) 125-153, 2013.
- Heal, Geoffrey and Nori Tarui “Investment and Emission Control under Technology and Pollution Externalities.” *Resource and Energy Economics*, 32 (1) 1-14, 2010.
- Tarui, Nori, C. F. Mason, S. Polasky, and G. M. Ellis “Cooperation in the Commons with Unobservable Actions.” *Journal of Environmental Economics and Management*, 55 (1) 37-51, 2008.

- D'Evelyn, Sean T., Nori Tarui, Kimberly Burnett, and James A. Roumasset "Learning-by-Catching: Uncertain Invasive-Species Populations and the Value of Information." *Journal of Environmental Management*, 89(4) 284-292, 2008.
- Tarui, Nori "Inequality and Outside Options in Common-Property Resource Use." *Journal of Development Economics*, 83(1), 214-239, 2007.
- Polasky, Stephen, Nori Tarui, Gregory M. Ellis, and Charles F. Mason "Cooperation in the Commons." *Economic Theory*, 29(1) 71-88, 2006.
- Tarui, Nori and Stephen Polasky "Environmental Regulation with Technology Adoption, Learning and Strategic Behavior." *Journal of Environmental Economics and Management*, 50(3), 447-467, 2005.

### **Publication (not peer-reviewed)**

- Tarui, Nori, Marcus Peng, Dolan Eversole "Economic Impact Analysis of the Potential Erosion of Waikikī Beach." University of Hawai'i Sea Grant College Program Report, 2018.

### **Book chapters**

- "The Role of Institutions in Natural Resource Use" in A. Balisacan, U. Chakravorty, and M-L Ravago, eds., *Resources, Development and Public Policy: Concepts, Practice and Challenges*, Elsevier, 2014.
- "Real-Time Information and Consumption: What Can Water Demand Programs Learn From Electricity Demand Programs?" with J. Lynham, in K. Burnett, R. Howitt and J. Roumasset, eds., *Handbook of Water Economics and Institutions*, Routledge, forthcoming.
- "Renewable Energy Policy Development in Hawaii" in Y. Fujita, K. Toguchi, S. Karimata, eds., *島嶼地域の新たな展望：自然・文化・社会の融合体としての島々 (New Perspectives on Island Studies: Islands as a Harmony of Nature, Culture, and Society)* Kyushu University Press, in Japanese, 2014.
- "Institutional aspects of environmental conservation" in *環境経済学 (Environmental Economics)*, Eiji Hosoda ed., Minerva Shobo, in Japanese, 2012.
- "Trade Restrictions and Incentives to Tax Pollution Emissions," with Morihiko Yomogida and Cynthia Yao, in *地球温暖化対策と国際貿易 (Climate Change Policies and International Trade)*, Toshi Arimura, Morihiko Yomogida, Tsuyosi Kawase, eds. University of Tokyo Press, in Japanese, 2012.
- "Game theory and international agreements on climate change mitigation," in *地球温暖化対策と国際貿易 (Climate Change Policies and International Trade)*, Toshi Arimura, Morihiko Yomogida, Tsuyosi Kawase, eds. University of Tokyo Press, in Japanese, 2012, in Japanese, completed May 2011.

### **Editorial work**

- Special Issue "Environmental Governance in Asia," Guest editors: Fuhai Hong, Nori Tarui, 2020.
- Special Issue "Enhancing renewable energy and energy efficiency: Japanese and U.S. policies with implications for Asia," Guest editors: Toshi H. Arimura, Nori Tarui, 2017.

### **Working papers**

- "Global fossil fuel consumption and carbon pricing: Forecasting and counterfactual analysis under alternative GDP scenarios" with L. Vanessa Smith and Takashi Yamagata, UH Mānoa Department of Economics Working Paper 20-16.

- “Revenue Decoupling for Electric Utilities: Impacts on Welfare and Prices,” with Arlan Brucal, UH Mānoa Department of Economics Working Paper 20-11R.
- “The Local Economic Impacts of Natural Resources: Evidence from Ghana’s Mining” with Tomomi Tanaka and Josephine Ofori Adofo, The World Bank Report, <http://documents.worldbank.org/curated/en/831221546845499574/The-Local-Economic-Effects-of-Natural-Resources-Evidence-from-Ghana>
- “Open Access Renewable Resources, Urban Unemployment, and the Resolution of Dual Institutional Failures” with Ichiroh Daitoh, UH Mānoa Department of Economics Working Paper 19-06. Formerly circulated as “Open-access Renewable Resources and Urban Unemployment: Dual Institutional Failures in a Small Open Economy,” with Ichiroh Daitoh, Discussion Paper DP2016-009, Institute for Economic Studies, Keio University, 2016.
- “Governing the Resource: Scarcity-Induced Institutional Change,” with James A. Roumasset. UH Mānoa Department of Economics Working Paper 10-15.
- “Intra-Industry Reallocations and Long-run Impacts of Environmental Regulations,” with Yoshifumi Konishi, UH Mānoa Department of Economics Working Paper 13-7.
- “Other-regarding behavior under collective action,” with Katerina Sherstyuk, Melinda Podor, Jay Vilorio, Tatsuyoshi Saijo. UH Mānoa Department of Economics Working Paper 14-4.
- “Designing Optimal Environmental Policy with Uncertainty, Investment, and Strategic Behavior,” with Stephen Polasky.

### **Work in progress**

- “Understanding Price Response for Commercial and Industrial Customers: Does Rate Schedule Change Make Customers More Price-Elastic?” with Asahi Oshiro.
- “Preference for Cash Dividend and Non-Cash Shareholder Perks: A Comparison between the United States and Japan” with Taeko Yasutake and Motoki Watanabe.
- “Panel VAR Analysis on fossil fuel use and CO2 emissions across countries” with Takashi Yamagata and Vanessa Smith.
- “Are energy conservation “nudges” effective? Evidence from a randomized residential field experiment in the Philippines,” with Majah-Leah V. Ravago and Arlan Brucal.
- “Child Maltreatment and Educational Attainment: Evidence from AddHealth Data,” with Xiangming Fang.
- “Self Governance of Natural Resources: Emergence of Entry Deterrence.”

### **GRANTS**

- Tarui, Nori, PI “A Comprehensive Approach to Value Waikīkī Beach,” University of Hawai‘i Sea Grant College Program, 2020-2022, \$116,634.
- Tarui, Nori, PI “Scoping research on Hawaii’s experience in electrical energy transition,” Panasonic Corporation, 2019-2020, \$10,000.
- Tarui, Nori, PI “Conditional Demand Analysis of Residential Energy Use Survey,” Hawaiian Electric Company, 2020, \$50,000.
- Konan, Denise, PI, Tarui, Nori, Co-PI “Informing Smart Customer Load,” contract with Hawaiian Electric Company, 2016-2019, \$150,000.
- Tarui, Nori, PI “Economic Impact Analysis of Waikiki Beach Erosion” Waikiki Beach Special Improvement District Association and University of Hawai‘i Sea Grant College Program Award, 2016-2017, \$32,224.

- Tarui, Nori, Katerina Sherstyuk, Co-PIs. “Other-regarding behavior, generosity, and implications for dynamic collective action problems,” Research Support Fund, College of Social Sciences, University of Hawai‘i, 2008-9.
- Tarui, Nori, PI. (James A. Roumasset, Co-PI.) “Optimal prevention and control of invasive species under uncertainty,” Research Relations Fund Award, University of Hawai‘i Research Council, 2006-7. Research Support Fund, College of Social Sciences, University of Hawai‘i.
- Arimura, Toshihide PI. (With eight investigators including Nori Tarui.) “The Impact of Domestic Emissions Trading on Competitiveness and International Climate Change Negotiation: A Law and Economics Approach,” Sumitomo Foundation, 2009-2010.
- Arimura, Toshihide PI. (With eight investigators including Nori Tarui.) “The Impact of Domestic Emissions Trading on Competitiveness and International Climate Change Negotiation: A Law and Economics Approach,” Mitsui & Co. Ltd, Environmental Fund, 2009-2012.
- Arimura, Toshihide PI. (With eight investigators including Nori Tarui.) “The Impact of Domestic Emissions Trading on Competitiveness and International Climate Change Negotiation: A Law and Economics Approach,” Japan Foundation Center for the Global Partnership, 2009-2011.

## **TEACHING EXPERIENCE**

### **Department of Economics, University of Hawai‘i-Mānoa**

Mathematics for Economics (graduate), Resource Economics (graduate), Microeconomic Theory I, II (graduate), Renewable Energy Economics and Policy (graduate), Environmental Economics (undergraduate), Intermediate Microeconomics (undergraduate), Economics of Climate Change (undergraduate), Energy Economics (undergraduate)

### **School of International and Public Affairs, Columbia University**

2005-6: Macroeconomics and Sustainable Development (Co-Instructor) and Human Ecology and Sustainable Development (Co-Instructor) in the PhD Program in Sustainable Development,

### **Department of Applied Economics, University of Minnesota-Twin Cities**

2002-4: Mathematics Review (Instructor), Econometric Analysis I, II (Teaching Assistant)

### **Department of Agricultural Economics, University of Wisconsin-River Falls**

2003: Agricultural Economics II (Instructor)

## **ACADEMIC PRESENTATIONS**

- 2020: Keynote Speech, Society of Environmental Economics and Policy Studies Annual Meeting (online), Sep. 25, 2020 “Economic Impacts of Sea Level Rise and Coastal Management.”
- 2019: Western Economic Association International Conference, Northeast Asia Economic Forum Young Leadership Program
- 2018: Chiba University, Waseda University, The Fifth World Congress of Environmental and Resource Economists, Northeast Asia Economic Forum Young Leadership Program, Hawaii Economic Association Conference, The Fourth Annual Conference on Applied Econometrics in Hawaii, Asian Development Bank, Federation of ASEAN Economic Associations (FAEA) Annual Conference
- 2017: London School of Economics, Waseda University, Northeast Asia Economic Forum Young Leadership Program, The Third Annual Conference on Applied Econometrics in Hawaii
- 2016: Waseda University, Kobe University, Kwansai Gakuin University, Tohoku University, Kyoto University, Northeast Asia Economic Forum Young Leadership Program
- 2015: Nihon University, Keio University, Western Economic Association International Annual Conference

- 2014: Waseda University, Keio University, Hitotsubashi University, Tohoku University, Kochi University of Technology, Yokohama National University, Kobe University, The Fifth World Congress of Environmental and Resource Economists, Behavior, Energy & Climate Change (BECC) Conference, Singapore Management University, Nanyang Technological University
- 2013: Asia-Pacific Economic Science Association Conference, Tokyo, Japan; Osaka University; Global Environmental System Leaders Program Conference, Keio University; Western Economic Association International 10th Biennial Pacific Rim Conference, Tokyo, Japan; Sophia University; Association of Environmental and Resource Economists (AERE) Summer Conference, College of Saint Benedict, University of Minnesota, University of Wisconsin-Madison
- 2012: Association for Business Communication Annual International Conference, Hawaii; Southern Economic Association Annual Meetings, New Orleans, Louisiana; University of the Ryukyus and University of Hawai'i Joint Symposium, Okinawa, Japan; East-West Center
- 2011: Industrial Ecology and Island Sustainability Conference, Hawai'i; Toyama University
- 2010: The Fourth World Congress of Environmental and Resource Economists, Montreal, Canada; Sophia University; Aoyama Gakuin University
- 2009: Keio University; Far East and South Asia Meeting of the Econometric Society Meeting, Tokyo, Japan; Sophia University; Kwansei Gakuin University; Western Economic Association International Meeting; Eastern Economic Association Meeting
- 2008: TIGS (Transdisciplinary Initiative for Global Sustainability) Symposium on the "Adaptation Strategies for Climate Change"; Occasional California Workshop on Environmental and Resource Economics; University of Minnesota; American Society of Health Economists Conference; Western Economic Association International Annual Conference; Nihon University; Hitotsubashi University; Sophia University; Keio University; University of Tokyo; Osaka University
- 2007: ASSA Meetings; University of Hawai'i-Mānoa; Doshisha University; Japanese Economic Association Meeting; Hitotsubashi University; University of Tokyo (Economics); University of Tsukuba; Tokyo Tech; Kobe University; University of Tokyo (TIGS, Transdisciplinary Initiative for Global Sustainability); Keio University; DISCCRS III Symposium (Dissertations Initiative for the Advancement of Climate Change Research)
- 2006: University of Wyoming; University of Hawai'i-Mānoa; University of Wisconsin-Madison; York University; The Third World Congress of Environmental and Resource Economists, Kyoto, Japan
- 2005: Columbia University; Keio University; Bard College; Eastern Economic Association Meeting
- 2004: University of Minnesota; Princeton University
- 2003: University of Minnesota; Keio University; Annual Meeting for the American Agricultural Economics Association
- 2002: University of Minnesota; Heartland Environmental and Resource Economics Workshop; International Atlantic Economic Conference; Annual Meeting for the American Agricultural Economics Association
- 2001: Keio University; University of Minnesota

## **PROFESSIONAL SERVICES**

- Editorial Board, *Journal of Environmental Economics and Management*, 2009-2015  
*Environmental Economics and Policy Studies*, 2010-  
*International Review of Environmental and Resource Economics*, 2012-  
*Singapore Economic Review*, 2018-

Referee for *B.E. Journal of Economic Analysis & Policy*, *Canadian Journal of Economics*, *China Agricultural Economic Review*, *Ecological Economics*, *Economic Bulletin*, *Economic Inquiry*, *Economic Journal*, *Economics Letters*, *Energy Journal*, *Environmental and Development Economics*, *Environmental and Resource Economics*, *Environmental Economics and Policy Studies*, *European Economic Review*, *Games and Economic Behavior*, *International Journal of Economic Theory*, *International Review of Economics and Finance*, *International Review of Environmental and Resource Economics*, *Journal of Development Economics*, *Journal of Economic Behavior and Organization*, *Journal of Environmental Economics and Management*, *Journal of Environmental Management*, *Journal of the Association of Environmental and Resource Economists*, *Journal of the Japanese and International Economies*, *Journal of Public Economics*, *Metroeconomica*, *Nature Energy*, *Proceedings of the National Academy of Sciences*, *Public Finance and Management*, *Resource and Energy Economics*, *Review of Economic Studies*, *Social Choice and Welfare*, *Strategic Behavior and the Environment*, *Sustainability Science*

#### **ACADEMIC ASSOCIATIONS**

American Economic Association, Association of Environmental and Resource Economists, Society for Environmental Economics and Policy Studies