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RESEARCH FIELDS Environmental and Energy Economics, Development Economics, Empirical Industrial Organization

EDUCATION Ph.D. Economics, [Rice University](#) (Expected) May 2025  
M.Sc. Financial Statistics, [The London School of Economics and Political Science](#) 2017  
B.Sc. Financial Mathematics, Economics, (*Summa Cum Laude*), [Wilson College](#) 2016

HONORS AND SCHOLARSHIPS Fellowship, [Center for Energy Studies, Baker Institute for Public Policy](#) 2020-Present  
Rice Graduate Student Fellowship, [Rice University](#), 2019-2020  
Scholarship, [International Association of Energy Economics \(IAEE\) International Conference, 2024](#) 2024  
Scholarship, [IAEE European Conference](#), 2023  
Scholarship, [IAEE International Conference](#), 2023  
Membership in [Phi Beta Kappa, Pi Gamma Mu](#) 2016  
Honours in the Major, [Wilson College](#) 2016  
The William P. Van Looy Business Prize, [Wilson College](#) 2015  
Dean's List, [Wilson College](#) 2012-2016  
Presidential Scholarship, [Wilson College](#) 2012-2016  
Starr Foundation Scholarship, [Wilson College](#) 2012-2016

PUBLICATIONS [“Catching the elusive herder: A second look at herding in heterogeneous samples”](#) with [Alexander Munson](#), *Int. J. Financial Markets and Derivatives* (2017), Vol. 5, No. 2-4, 140–153  
[“Capital Allocation Methods in Financial Institutions—A Review and Comparison”](#), *Proceedings of the International Conference on Innovation & Management*, (2018), 387-392

WORKING PAPERS [“Assessing the Path to Net Zero: Evidence from California’s Residential Natural Gas Restrictions and Heat Pump Adoption”](#)  
[*Job Market Paper*]

ABSTRACT: The U.S. government’s push for net-zero emissions has accelerated the transition toward electrified homes, heat pump adoption, and natural gas restrictions. California, at the forefront of these efforts, faces a particular challenge as natural gas remains a key source for space heating, coupled with high electricity prices. While these regulations align with environmental goals, they raise concerns about increased energy costs for consumers and potential strain on the power grid. This study develops a structural model to analyze the impact of natural gas restrictions and heat pump adoption on consumer choices, welfare, and the broader implications for effective carbon mitigation policies. I assess the impact of natural gas restrictions on household energy usage patterns, examine the policy’s social costs, and evaluate the effectiveness of financial incentives in reducing potential consumer burdens. Results indicate that, although policy incentives promote heat pump adoption, they are insufficient to fully offset welfare losses. In the cooling season, a rebound effect leads to increased energy use, but the expenditures still decline due to efficiency gains. In contrast, no rebound effect is observed in the heating season, where high electricity prices cause welfare losses despite efficiency improvements and available rebates.

[“A Pathway towards Energy Transition: Urbanization and Clean Fuel Adoption in Chinese Homes”](#)  
[Submitted to *Energy Economics*]

WORKING IN PROGRESS	The loss of the Iron Rice Bowl-The Late 1990s Layoffs Wave and Intra-household Bargaining in China A Study about Creating a Deep Liquid Natural Gas Market in China (with <a href="#">Kenneth B. Medlock</a> ) Heat Pumps and Low-Carbon Subsidies: A Closer Look at Income Level Disparities	
TEACHING EXPERIENCE	Lecturer, Rice University: Math and Statistics Camp [G]	2020 - 2024
	Teaching Assistant, Rice University: Microeconomics of Energy Sector [G], Industrial Organization and the Energy Sector [G], Energy and the Macroeconomy [G], Economics of Energy & Environment[G], Corporate Finance for the Energy Sector[G], Taxation in the Energy Sector[G], Principles of Economics [UG], Macroeconomics[UG]	2019-Present
ACADEMIC SERVICE	Student Representative, <a href="#">IAEE Council</a>	2023 – 2024
	Moderator, IAEE European Conference	2023
	Reviewer, USAEE/IAEE North American Conference	2023
	PhD Day Co-Organizer, USAEE/IAEE North American Conference	2022
	Referee, <i>Resources Policy</i>	
PROFESSIONAL EXPERIENCE	Risk Advisory: Deloitte Touche Tohmatsu, Guangzhou, China	2018 – 2019
	Intern: Industrial and Commercial Bank of China, Wuhan, China	Summer 2016
	Intern: Morgan Stanley, Summer Student Trading Camp, Beijing, China	Summer 2014
SEMINARS AND PRESENTATIONS	2024 Energy and the Intersection of Technology, Markets, and Policy Conference, Rice University 2023 Brown Bag Seminar, Rice University 2023 USAEE/IAEE North American Conference, Chicago 2022 Annual USAEE/IAEE North American Conference, Houston IAEE International Conference, Tokyo 2021 Annual USAEE/IAEE North American Conference Berkeley Summer School in Environmental and Energy Economics	
SKILLS	Programming: MATLAB, Julia, R, C++, $\LaTeX$ Languages: Mandarin, English	
REFERENCES	<a href="#">Professor Peter Hartley</a> (Chair) Department of Economics, Rice University +1(713)-348-2534 <a href="mailto:hartley@rice.edu">hartley@rice.edu</a>	<a href="#">Professor Isabelle Perrigne</a> Department of Economics, Rice University <a href="mailto:isabelle.perrigne@rice.edu">isabelle.perrigne@rice.edu</a>
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