

# Jiehong Lou

[jlou@umd.edu](mailto:jlou@umd.edu) [LinkedIn](#)

- 2101 Van Munching Hall
  - College Park, MD 20742
  - 917-617-5261
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**SUMMARY** Areas of expertise include climate finance and carbon finance, energy economics, environmental policy, energy policy, sustainable development, equity, and transportation justice. Research focuses on mobilization of private finance in financing climate action, corporate motivations for carbon project investment, evaluation of co-benefits from climate finance projects, measurement of different types of risks in climate finance and investment needs, behavior change interventions on energy consumption, and how transportation accessibility impose disparate impacts on different economic and minority groups.

<b>EDUCATION</b>	<b>University of Maryland, School of Public Policy</b> Ph.D.	<b>College Park, MD</b> Aug 2020
	<b>University of Maryland, Philip Merrill College of Journalism</b> Graduate Certificate in Multimedia Journalism	<b>College Park, MD</b> Dec 2015
	<b>University of Maryland, Department of Economics</b> Master in Applied Economics	<b>College Park, MD</b> Dec 2013
	<b>University of Maryland, School of Public Policy</b> Master of Public Policy	<b>College Park, MD</b> May 2009
	<b>Tongji University, School of Economics and Management</b> Bachelor of Law, Major in Public Administration	<b>Shanghai, China</b> Jun 2006
	<b>University of California, Berkeley</b> Exchange Program	<b>San Francisco, CA</b> Jun 2004- Sep 2004

## PUBLICATIONS

- Lou, J., Shen, X., and Niemeier, D. 2020. "Are stay-at-home orders more difficult to follow for low income groups?" *Journal of Transport Geography*, 89
- Hultman, N., Clarke, L., Frisch C., Kennedy K., McJleon H., Cyrs T., Hansel P., ..., Lou, J., ..., O'Neil, J., et al. "Fusing Subnational with National Climate Action Is Central to Decarbonization: The Case of the United States." *Nature Communications* 11, no. 1 (December 2020): 5255. <https://doi.org/10.1038/s41467-020-18903-w>.
- Hultman, N.; Lou, J., Hutton, S., 2020. A review of community co-benefits of the Clean Development, *Environmental Research Letters* <https://dx.doi.org/10.1088/1748-9326/ab6396>
- Energy Foundation China (2020). "Synthesis Report 2020 on China's Carbon Neutrality: China's New Growth Pathway: from the 14th Five Year Plan to Carbon Neutrality." Energy Foundation China, Beijing, China. Available at: <https://www.efchina.org/Reports-en/report-lceg-20201210-en>. (one of the lead authors)
- Cooley, H., Gleick, P., Lou, J., Mintzer, I, and Ha, M., Abraham, S., Arney H., 2020. "Financing Water Supply and Sanitation in a Changing Climate." Pacific Institute and Water.org, CA. Available online at <https://pacinst.org/publication/financing-water-in-a-changing-climate/>
- Frech, J., Lou, J., Sha, Y., and Song, J., (2020), Public-Private Partnership & Clean Energy Finance: The Green Bank Model (English Version). Center for Global Sustainability.
- Lou, J, Sha, Y, and Song, J., (2020), Public-Private Partnership & Clean Energy Finance: The Green Bank Model (Chinese Version). Center for Global Sustainability.
- Hultman, N.; Clarke, L.; and Lou, J. 2019. "Analytical Capacity for Long-Term Strategies." Case Study. Washington, DC: World Resources Institute. Available online at

<https://www.wri.org/publication/analytical-capacity-long-term-strategies>

Hultman, N., Kennedy, S., Bowman, C., Sen, A., Krawczyk, W., **Lou, J.**, Frech, J., Sanchez, F., Prada, A., 2018. *Fulfilling America's Pledge: How States, Cities, and Business Are Leading the United States to a Low-Carbon Future*. Published by the America's Pledge Initiative on Climate Change and Bloomberg Philanthropies, with the University of Maryland Center for Global Sustainability, Rocky Mountain Institute, and World Resources Institute, New York. 150 pp. Available at: [www.americaspledge.com](http://www.americaspledge.com).

Bhargava, Alok. "Dynamic Aspects of ORF1ab and N RNA Cycle Threshold Values among COVID-19 Patients in China." *Infection, Genetics and Evolution*, December 2020, 104657. <https://doi.org/10.1016/j.meegid.2020.104657>. (contributor)

Hultman, Nate. "Building an Ambitious and Robust U.S. Climate Target: A Comprehensive Process to Catalyze National and Subnational Climate Action for the next NDC." Global working paper #146. Washington D.C.: Brookings Institution, November 2020. (contributor)

World Bank, 2018. *Carbon Markets for Greenhouse Gas Emission Reduction in a Warming World*. Independent Evaluation Group. Washington DC: World Bank. (contributor)

#### WORKING PAPERS

Liang, J., **Lou, J.**, and Siegel, J. Chinese public attitudes undercut nuclear growth? Assessing Chinese online discussions of nuclear power development. (Under Review at *Journal of Risk Analysis*)

#### RELATED EXPERIENCE

**Maryland Transportation Institute,  
A James Clark School of Engineering, UMD**  
Post-doc Fellow/ Faculty Assistant  
Advisor: Deb Niemeier

**College Park, MD**  
Sep 2020-present

- Project lead for multiple research projects across the areas, such as COVID-19's impacts on electricity market, COVID-19's impact on vulnerable groups, transportation accessibility and justice, evaluating financial instruments for urban infrastructure of local government, understand and reshape the risk-return profile of high-priority sustainable infrastructure projects, financing the low-carbon transition in China.
- Writing proposals for research grants

**Center for Global Sustainability, University of Maryland**  
**Closing the Investment Gap Initiative on Sustainable Infrastructure**  
Team Lead and Project Advisor

**DC, MD, NY**  
Jan 2019 – present

- Conducting research on the application of blended finance to accelerate private sector investments into sustainable infrastructure in developing countries.
- Developing innovative financing models that improve sustainable infrastructure investments in the Pacific and Caribbean Small Island Developing States (SIDS).
- Leading Africa country teams (Egypt, Ethiopia and Kenya) to work on their portfolios of sustainable infrastructure projects with high national priorities and elevating these projects to investment-grade status.
- Leading Asian country teams (Bangladesh and Vietnam) to work on their portfolios of sustainable infrastructure projects, and explore innovative financing tools to attract international investors, such as refinancing balance sheet of large infrastructure development company in Bangladesh, and credit enhancement in Vietnam.
- Team member with other developing countries, such as Colombia and Chile.

**Center for Global Sustainability, University of Maryland**  
**Analysis for Climate Ambition Program; China Program; Finance Program**  
Research Assistant

**College Park, MD**  
Aug 2017 – present

- Modeled policies for U.S. climate action as part of America's Pledge.

- Conducted research and served as co-author for reports covering the following areas: green finance, investment risks mitigations, decarbonization, long-term mitigation strategy, energy transitions, and more.
- Supporting creating a center-wide program of climate finance and investment initiatives.

**Climate Change: Water Supply and Sanitation (WSS) Financing Project** DC, MD and CA  
Team Lead, collaborated with the Pacific Institute and Water.org Apr 2019 – Dec 2019

- Led project on “Green Financing and Microfinance Opportunities” from the UMD side. Mainly conducted research on financing WSS infrastructure in a more effective and efficient manner.
- Produced a report on “Financing Water Supply and Sanitation in a Changing Climate” with collaborators.

**World Bank Group** Washington, DC  
**Independent Evaluation Group** Sep 2017 – Feb 2018  
Consultant

- Researched and wrote two reports, based on structured literature reviews on additionality in carbon finance and local community co-benefits from carbon finance.
- Contributed to the primary goal of the evaluation team on assessing the results of carbon finance projects.

**Bloomberg Philanthropies** New York, NY  
**Global Cities Program**  
Special Consultant to the Founder of Global Cities, Inc. Sep 2016 – Dec 2018

- Wrote policy memos for the founder and the senior executives.
- Developed strategic plans for organization’s development goals in Asia.
- Designed marketing strategies suited for the China division including identifying and reaching out to potential partners and establishing long-term cooperation.
- Traveled with the Vice President to China and visited schools to develop relationships for the Global Scholars program.
- Established more than 15 partners in 6 months through outreach.

**World Resources Institute, Water Program** MD and DC  
Class Project Jun and Jul 2017

- Conducted research on water scarcity of palm oil plantations in Indonesia and Malaysia.
- Analyzed the water stress for the oil palm plantations at the global level as well as specifically Indonesia and Malaysia in GIS by using data from Aqueduct Global Maps and EarthStat.
- Created a Country Level Water Stress Map for Palm Oil Plantations.
- Wrote a report to the Department of Geographical Sciences, UMD.

**Field Course: Sustainable Development in Indonesia** Indonesia  
Study Abroad (Led by Prof. Thomas Hilde) Dec 2016 – Jan 2017

- Learned about sustainable development practices and outcomes in Indonesia via interviews and site visits in Bali, Sulawesi, Sumatra, and Java, with a focus interconnections between Indonesia’s environmental challenges and development issues and strategies.
- Conducted research in the following areas: mitigation options in land use sector and energy sectors for Indonesia; the potential of biodiesel from palm oil plantations; the effectiveness of performance-based aid in developing countries; comparative case studies of Brazil and Indonesia.

**University of Maryland, School of Public Policy** College Park, MD  
**China Program, Executive Programs** Sep 2009 – Aug 2016  
Program lead

- Oversaw progress of all program management initiatives and achieved more than \$1million annual income over three years.

- Spearheaded the launch of 20 successful leadership programs with Chinese National Development and Reform Commission, Peking University China, and National University of Singapore.
- Pioneered the execution of the Chinese Executive Master Program back to 2008 with Jiangsu provincial government and Shanghai municipal government, which generated more than 150 graduates in 3 years.

**SKILLS**

**Languages:** Chinese (Native), English (Fluent), Japanese (Basic)

**Computer:** Proficient in Python, R, STATA, SPSS, GIS, GCAM (integrated assessment model), NVivo, Mplus, Adobe Photoshop, Adobe Audition, Adobe Premiere, Dreamweaver, Komodo.