

# Luoye Chen

luoyechen@ust.hk ◇ MY PERSONAL WEBSITE

## ACADEMIC POSITIONS

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| <b>Assistant Professor</b>                                   | 2023- |
| Carbon Neutrality and Climate Change Thrust, Society Hub     |       |
| Hong Kong University of Science and Technology (Guangzhou)   |       |
| <b>Joint Assistant Professor</b>                             | 2022- |
| Innovation, Policy, and Entrepreneurship Thrust, Society Hub |       |
| Hong Kong University of Science and Technology (Guangzhou)   |       |

## EDUCATION

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|---|--------------------------------------|------|
| <b>University of Illinois at Urbana-Champaign</b> | <i>Ph.D. in Applied Economics</i>    | 2022 |
| <b>Peking University</b>                          | <i>Master in Economics</i>           | 2016 |
| <b>Peking University</b>                          | <i>Bachelor in Management</i>        | 2014 |
| <b>Peking University</b>                          | <i>Bachelor in Economics (Minor)</i> | 2014 |

## SELECTED WORK IN PROGRESS

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- The Impact of Prevented Planting Provisions on Agricultural Production Decisions
- Sustainable agricultural development in ecologically vulnerable area
- The adoption and diffusion of sustainable technologies: insights from text data

## WORKING PAPERS

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- **Luoye Chen** and Madhu Khanna, “Weather Shocks, Economic Triggers, and Cropland Change in the US: A Fine-scale Spatial Analysis”
- **Luoye Chen** and Madhu Khanna, “Known and Unknown: Uncertainty in Estimating Land use Change from Satellite Data”
- **Luoye Chen** and Madhu Khanna, “Heterogeneous Effects of a Changing Climate on Bird Biodiversity and Adaptability” (*Under Review*).
- Xiaoguang Chen\*, Jing Gao\*, **Luoye Chen\***, Madhu Khanna\*, Binlei Gong, and Max Auffhammer. “The Spatiotemporal Pattern of Surface Ozone and Its Impact on Agricultural Productivity in China”. PNAS-Nexus, Forthcoming (\*First authorship jointly shared).
- Yuanyao Lee, Madhu Khanna, **Luoye Chen**, Rui Shi, Jeremy Guest, Elena Blanc-Betes, Chongya Jiang, Kaiyu Guan, Tara Hudiburge, and Evan Delucia. “Quantifying Uncertainties in Greenhouse Gas Savings and Mitigation Costs with Cellulosic Biofuels”. European Review of Agricultural Economics. Forthcoming.

## PEER-REVIEWED PUBLICATIONS

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- Xiaoguang Chen\*, **Luoye Chen\***, Wei Xie\*, Nathan Mueller, Steven Davis, “Air Pollution and Flight Delays in China” *Journal of Environmental Economics and Management* 119 (2023): 102810. (\*First authorship jointly shared)
- **Luoye Chen**, Elena Blanc-Betes, Tara W. Hudiburge, Daniel Hellerstein, Steven Wallander, Evan H. DeLucia, Madhu Khanna, 2021. “Assessing the Returns to Land and Greenhouse Gas Savings from Producing Energy Crops on Conservation Reserve Program Land.” *Environmental Science & Technology*.

- **Luoye Chen**, Deepayan Debnath, Jia Zhong, Kelsie Ferin, Andy VanLoocke, and Madhu Khanna, 2021. “The Economic and Environmental Costs and Benefits of the Renewable Fuel Standard.” *Environmental Research Letters*.
- Kelsie M. Ferin, **Luoye Chen**, Jia Zhong, Sarah Acquah, Emily A. Heaton, Madhu Khanna, and Andy VanLoocke, 2021. “Water Quality Effects of Economically Viable Land Use Change in the Mississippi River Basin under the Renewable Fuel Standard.” *Environmental Science & Technology*.
- Madhu Khanna, **Luoye Chen**, Bruno Basso, Ximing Cai, John Field, Kaiyu Guan, Chongya Jiang, Tyler Lark, Tom Richard, Seth Spawn-Lee, Peng Yang, 2021. “Redefining Marginal Land for Bioenergy Crop Production.” *GCB Bioenergy*.
- Chongya Jiang, Kaiyu Guan, Madhu Khanna, **Luoye Chen**, Jian Peng, 2021. “Assessing Marginal Land Availability Based on Land Use Change Information in the Contiguous United States.” *Environmental Science & Technology*.
- Shengxiao Li, **Luoye Chen**, Pengjun Zhao, 2019. “The Impact of Metro Services on Housing Prices: a Case Study from Beijing.” *Transportation*.

## SELECTED PRESENTATIONS AND SEMINARS

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- **Known and Unknown: Uncertainty in Estimating Land use Change from Satellite Data”**  
AERE (June 2023)
- **“Weather Shocks and Economic Triggers of Cropland Change in the US: A Fine-scale Spatial Analysis”**  
Virginia Tech, University of Tennessee (Knoxville), University of Wisconsin-Madison, Jinan University, China Agriculture University **AEA**, **AERE**, **AAEA**, **AGU**
- **“Fowl Climate: Assessing the Heterogeneous Impact of Climate Change on Bird Biodiversity in United States”**  
22nd international Biodiversity and Economics for Conservation Conference (**BIOECON XXII**), **AERE**, **AAEA**

## SERVICE

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Reviewer: Environmental Science & Technology, Research in Transportation Economics, Environmental Research Letters, Environmental Research Communications  
Abstract Reviewer: **AAEA**, **AERE**

## TEACHING

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**Environmental Economics and Sustainable Development**, 2023 Fall, 2023 Spring  
**Data Science in Empirical Economics**, 2024 Spring, 2023 Spring