

# Hao Yin

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## EMPLOYMENT

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Sep. 2018- Present, supervisors: Profs. Zhu Liu, Dabo Guan, Qiang Zhang  
Postdoctoral Research Associate, Department of Earth System Science, Tsinghua University

Nov. 2019-Sep. 2020  
Visiting Postdoctoral Researcher, University of California, Berkeley

## EDUCATION

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**Aalborg University** *Aalborg, Denmark*  
**PhD** in Planning and Development, Department of Planning Sep. 2015 - Apr. 2018  
Thesis: From PM10 to PM2.5: Health Impacts and External Costs of Particulate Matter Pollution in Beijing, China

**Beijing Normal University** *Beijing, China*  
**PhD** in Environmental Economics, School of Environment Sep. 2012 - Jan. 2018  
Thesis: PM2.5 Health Risks and Economic Loss Based on the Environmental Externality

**Northeast Normal University** *Changchun, China*  
**Bachelor of Science** in Ecology, College of Urban and Environment Sciences Sep. 2008 - Jul. 2012

## PUBLICATIONS

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### PAPERS

- **Hao Yin**, Massimo Pizzol, Jette Bredahl Jacobsen, Linyu Xu, Contingent Valuation of Health and Mood Impacts of PM2.5 in Beijing, China, *Science of the Total Environment*, 2018 630, 1269-1282. IF: 4.900, JCR ranking: Q1.
- **Hao Yin**, Linyu Xu, Comparative study of PM10/PM2.5-bound PAHs in Downtown Beijing, China: Concentration, Sources and Health Risks, *Journal of Cleaner Production*, 2018 177, 674-683. IF: 5.715, JCR ranking: Q1.
- **Hao Yin**, Massimo Pizzol, Linyu Xu, External Costs of PM2.5 Pollution in Beijing, China: Uncertainty Analysis of Multiple Health Impacts and Costs, *Environmental Pollution*, 2017 226, 356-369. IF: 5.099, JCR ranking: Q1.
- **Hao Yin**, Linyu Xu, Yanpeng Cai, Monetary Valuation of PM10-Related Health Risks in Beijing China: The Necessity for PM10 Pollution Indemnity, *International Journal of Environmental Research and Public Health*, 2015, 12(11), 9967-9987. IF: 2.101, JCR ranking: Q2.
- Linyu Xu, **Hao Yin**, Xiaodong Xie, Health Risk Analysis of Inhalable Particulate Matter in Beijing based on the Thermal Environment, *International Journal of Environmental Research and Public Health*, 2014, 11(12), 12368-12388, IF: 2.101, JCR ranking: Q2.
- Yang Yang, Liwen Luo, Chao Song, **Hao Yin**, and Jintao Yang, Spatiotemporal assessment of PM2.5-related economic losses from health impacts during 2014-2016 in China, *International Journal of Environmental Research and Public Health*, 2018, 15(6), 1278-1294. IF: 2.101, JCR ranking: Q2.
- Linyu Xu, **Hao Yin**, Zhaoxue Li, Shun Li, Urban Land Ecological Security Evaluation of Guangzhou, China, *International Journal of Environmental Research and Public Health*, 2014,

11(10), 10537-10558. IF: 2.101, JCR ranking: Q2.

## BOOK

- Linyu Xu, Fengqin Jiang, **Hao Yin** et al., Urban Ecological Risk Assessment and Management, 2017, Science Press (in Chinese).

## WORK IN PROGRESS

- The Global Economic Burden of Air Pollution on the Aging Population (prepare for submission to the Lancet Planetary Health, with Profs. Daniel M. Kammen, Denise L. Mauzerall, Ståle Navrud, Richard T. Burnett);
- The Health Economic Damage of Daily Air Pollution Exposure (with Prof. Haidong Kan);
- The Global Social Cost of PM2.5 Pollution based on Input-Output Model (with Dr. Hongyan Zhao);
- Cost of Forest Fires: Climate, Health and Ecosystem Services
- Health Cost of Air Pollution Driven by Urbanization in China (with Prof. Michael Brauer);
- Climate and Health Effects of Green Energy System (with Prof. Daniel M. Kammen).

## EXPERIENCE

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### SELECTED HONORS & AWARDS

- Award for 2019 Graduate Workshop on China in the Urban Age 2019
- ProSPER.Net Leadership Program Fellowship 2018
- Excellent Doctoral Student in China, Chinese-German Center for Science Promotion 2017
- Outstanding Scientific Achievement Award, Beijing Normal University 2016
- First-Class Scholarship, Beijing Normal University 2015
- Yutu Awards for Scientific Research, Beijing Normal University 2015
- First-Class Scholarship, Top 5%, Northeast Normal University 2012
- President Merit Scholarship, Top 2%, Northeast Normal University 2011
- First-Class Scholarship, Top 5%, Northeast Normal University 2010
- Excellent student, Top 2%, Northeast Normal University 2010
- President Merit Scholarship, Top 2%, Northeast Normal University 2009
- Excellent student, Top 2%, Northeast Normal University 2009

### RESEARCH PROJECTS

- **Principal investigator**, 2020-2022 (CNY 200,000 [~USD 30,000])  
*Project:* Health Economic Burden of Air Pollution on the Aging Population in Beijing-Tianjin-Hebei Region.  
Funded by National Science Foundation for Young Scientists  
*Responsibility:* Study design, data collection, model simulation, results analysis and report writing.
- **Principal investigator**, 2019-2020 (CNY 50,000 [~USD 7,700])  
*Project:* High-Resolution PM2.5 Health Damages in Beijing-Tianjin-Hebei Region.  
Funded by China Postdoctoral Science Foundation  
*Responsibility:* Study design, data collection, model simulation, results analysis and report writing.
- **Researcher**, 2016-2020 (CNY 4,600,000 [~USD 700,000])  
*Project:* Ecological Security Technology of Urban Agglomeration in the Pearl River Delta—

Urban Agglomeration Metabolic Simulation, Ecological Risk Prediction, and Early Warning Technology

Funded by China's Ministry of Science and Technology

*Responsibility:* Conducted field study, contributed to project discussions, analyzed data and prepared reports.

- **Researcher**, 2015-2016 (CNY 500,000, [~USD 70,000])

*Project:* Strategic Environmental Assessment in the Pearl River Delta—Environmental Assessment and Settlement Security Research

Funded by China's Ministry of Environmental Protection

*Responsibility:* Collected empirical data, constructed simulation models, analyzed results and contributed to writing the final reports.

- **Researcher**, 2013-2016 (CNY 680,000, [~USD 105,000])

*Project:* Ecological Risk Research on Rapid Urbanization Regions

Funded by National Natural Science Foundation of China

*Responsibility:* Participated in the field study, sampled empirical data, conducted experiments, analyzed data results and wrote annual reports.

## SELECTED PRESENTATIONS

### Invited Talks

- Chinese Academy of Sciences Shenyang, China  
*Title:* How Do We Value the Cost of Air Pollution? 2018
- The University of Sydney, China Studies Center Sydney, Australia  
*Title:* Air Pollution and Environmental Inequality: How to Build a Just City? 2019
- Shanghai University of International Business and Economics Shanghai, China  
*Title:* PM2.5 Environmental Externalities from the Perspective of Public Preferences 2017

### Conference Presentation & Workshop

- **The 2019 ENVISAGE Workshop** West Lafayette, USA  
Group work on Envisage Model at Purdue University 2019  
*Title:* Deep Decarbonization Scenarios Analysis and Policymaking.
- **Lindau Nobel Laureate Meeting** Lindau, Germany  
Oral presentation, Applied Microeconomics Seminar 2017  
*Title:* Contingent Valuation of Health and Mood Impacts of PM2.5 in Beijing, China.
- **Society for Risk Analysis Annual Meeting** San Diego, USA  
Poster presentation, Travel award 2016  
*Title:* PM2.5 Related Welfare Loss in Beijing, China.
- **PACE International Symposium on Environmental Economics and Policy** Nanjing, China  
Oral presentation 2015  
*Title:* Monetary Valuation of PM10-Related Health Risks in Beijing China.
- **Society for Risk Analysis Annual Meeting** Denver, USA  
Oral Presentation 2014  
*Title:* Inhalable Particulate Matter Health Risk Assessment in Beijing, China.
- **Urban Environmental Pollution** Toronto, Canada  
Poster presentation 2014

*Title:* Health Risk Analysis of Inhalable Particles in Beijing based on the Thermal Environment;

- **The 3<sup>rd</sup> Biennial Symposium of the International Society for River Science** Beijing, China  
Oral presentation 2013  
*Title:* Urban Water Management and Policies in China Based on Water Security.

## TEACHING AND LEADERSHIP EXPERIENCE

- **Graduate Teaching Assistant** University of East Anglia  
*Course:* Methods in Human Geography 2018  
*Responsibility:* Evaluate graduate students' assignments.
- **Graduate Teaching Assistant** Beijing Normal University  
*Course:* Ecological Risk Assessment (English course) 2017  
*Responsibility:* Taught programming with R for ecological risk assessment to 60 junior-level undergraduates. Assisted an international professor in communication with students.
- **Undergraduate thesis advisor** Beijing Normal University  
*Field:* Environmental science 2014-2015  
*Department:* School of Environment  
*Responsibility:* Give advice and provide help to undergraduate students for study design, field research, data collection, experiments and thesis writing.
- **Graduate Teaching Assistant** Beijing Normal University  
*Course:* Natural Science Forum 2013-2014  
*Responsibility:* Developed and gave lectures to 80-100 junior-level undergraduates. Coordinated with professors from various universities. Graded quizzes, assignments and course exams.

## INTERNATIONAL CONFERENCE ORGANIZATION

- **Conference Assistant**  
*Conference:* PACE 2013—International Symposium on Environmental Economics and Policy in China, Dalian, China  
*Responsibility:* Prepared conference materials, communicated with participants through emails, reviewed abstracts, arranged program schedule and assisted participants in registration.

## TECHNICAL SKILLS

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### SOFTWARE

R, ArcGIS, Python, BenMap model, EnergyPlan, Stella, Photoshop, Adobe Illustrator, Gapminder

### LANGUAGE

English— Full professional proficiency

Chinese—Native proficiency

### PERSONAL

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Application of Canadian permanent residence under review

## REFERENCES

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**Daniel M. Kammen**

Professor of  
University of California,  
310 Barrows Hall  
Berkeley CA, 94720-3050  
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+1 510-642-1640  
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