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SCHOOL OF ENVIRONMENT, TSINGHUA UNIVERSITY

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Education

- 2010.9 ~ 2014.7 Bachelor, School of Environment, Tsinghua University
- 2011.9 ~ 2014.7 Second Major, Department of Computer Science, Tsinghua University
- 2014.8 ~ PhD Student, School of Environment, Tsinghua University

Research

- Research Area:

(1) Greenhouse Gas Mitigation of Industrial Parks in China

(2) Industrial Restructuring Driven by Reallocating Pollutant Emission Cap

- Representative Peer-reviewed Publications:

(1) **Yang Guo**[#], Thibaut Glad[#], Zhaozhe Zhong, Ruonan He, Jinping Tian, Lujun Chen. Environmental Life-cycle assessment of Municipal Solid Waste Incineration Stocks in Chinese Industrial Parks. *Resources, Conservation & Recycling*, 2018, 139, 387-395.

(2) **Yang Guo**, Jinping Tian, Na Zang, Yang Gao, Lujun Chen. The Role of Industrial Parks in Mitigating Greenhouse Gas Emissions from China. *Environmental Science & Technology*, 2018, 52(14), 7754-7762.

(3) **Yang Guo**, Jinping Tian, Marian Chertow, Lujun Chen. Exploring Greenhouse Gas-Mitigation Strategies in Chinese Eco-Industrial Parks by Targeting Energy Infrastructure Stocks. *Journal of Industrial Ecology*, 2018, 22(1), 106-120.

(4) **Yang Guo**, Zizhang Zeng, Jinping Tian, Feng Xu, Lujun Chen, Anguo Zhou. Uncovering the Strategies of Green Development in a Chinese Province Driven by Reallocating the Emission Caps of Multiple Pollutants among Industries. *Science of the Total Environment*, 2017, 607-608, 1487-1496.

(5) **Yang Guo**, Wei Liu, Jinping Tian, Ruonan He, Lujun Chen. Eco-efficiency Assessment of Coal-fired Combined Heat and Power Plants in Chinese Eco-industrial Parks. *Journal of Cleaner Production*, 2017, 168, 963-972.

(6) **Yang Guo**, Jinping Tian, Marian Chertow, Lujun Chen. Greenhouse Gas Mitigation in Chinese Eco-industrial Parks by Targeting Energy Infrastructure: a Vintage Stock Model. *Environmental Science & Technology*, 2016, 50, 11403-11413.

(7) **Yang Guo**, Xianglin Guo, Jinping Tian, Lujun Chen. Study of Reciprocal Effects between Mandatory Pollutant Emissions Reduction Policy and Structural Change within the Manufacturing Sector in a Chinese Coastal Area. *Environmental Science & Technology*, 2015, 49, 12840-12850.

- Other Achievements: Three Software Copyrights;
  Co-authoring the Book *Introduction of Ecological Civilization (in Chinese), Chapter 8*
- ResearchGate: https://www.researchgate.net/profile/Yang_Guo39
  Google Scholar: https://scholar.google.com/citations?hl=zh-CN&user=yHTKJXgAAAAJ

Project

- Pathway to Improve the Efficiencies of Energy Infrastructure in Chinese Eco-industrial Parks, Supported by *Beijing Environment Foundation for Young Talents*, Leading Researcher
- A Multi-criteria Decision-making Model to Assess Pollution Prevention Strategies of a Chinese Coastal Area, Supported by *Department for Education of Beijing*, Leading Researcher
- Greenhouse Gas Mitigation in Chinese Industrial Parks by Targeting Energy Infrastructure, Supported by *Natural Science Foundation of China*, Main Participant (hereinafter inclusive)
- Dynamic Evolution and Regulation of Material-energy Metabolism in Chinese Chemical Industrial Parks, Supported by *Natural Science Foundation of China*
- Green Development Performance of National Economic and Technical Development Zones in China, Supported by *Ministry of Commerce of China*
- Study of Eco-industrial Development in Chinese Industrial Parks, Supported by *Energy foundation*
- Integrated Energy System Development in Industrial Parks, Supported by *Zhejiang Provincial Energy Group*

Experience

- Organization Board of *International Forum on Sustainable Solutions for New Era of Ecological Civilization 2017*, Chair of the Sub-forum *Youth Workshop*
- Chair-elect of *Chinese Graduate Student Forum on Resource Sustainability*
- Oral / Poster Presentation in more than 10 International/National Academic Conferences, such as *ISIE-ISSST 2017*
- Local contact of *Symposium on Industrial Ecology for Young Professionals* of *ISIE 2019*
- Organization Board and Judging Panel of the *10th National College Contest of Environmental Innovation*
- Teaching assistant of a public course at Tsinghua, *Introduction of Cleaner Production*
- Internship in *China Energy Conservation and Environmental Protection Group Corp*, and *Environmental Protection Bureau of Beijing Economic-Technological Development Area*

Skills

- Programming Language: C, C++, Python, and JAVA
- Statistic and Mathematic Tool: ArcGIS, MATLAB, SPSS, Oracle Crystal Ball, e!Sankey, and MaxDEA
- Life Cycle Assessment Software: GaBi, SimaPro, and eBalance

Awards

- National Scholarship for Graduate Student in China, 2015/2016/2018
- Qian Yi Environment Award, Top Prize, 2018 (1 student nationwide annually)
- Tsinghua University Special Grade Scholarship Finalist, 2018 (20 graduate students in university annually)
- Peking University-Lincoln Institute Scholarship, 2018 (12 graduate students nationwide annually)
- Tang Lixin Scholarship for Graduate Student, 2017 (1 graduate students in school annually)
- Zhou Jizhong & Shi Xiaoya Scholarship for Excellent Graduate Student, 2017
- National Academic Conference of PhD Students in China, Best Oral Presentation and Best Paper, 2016
- Green Seedling Scholarship from Beijing Environment Foundation, 2014 (10 teams nationwide annually)