

Piyu Ke 柯丕煜 | Curriculum Vitae

Department of Earth System Science, Tsinghua University

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EDUCATION

- ▲ **Tsinghua University** *Aug 2020 – Present*
 - Department of Earth System Science
 - PhD student, Ecology
- ▲ **School of Atmospheric Sciences, Sun Yat-sen University** *Aug 2016 – Jun 2020*
 - B.S. in Applied Meteorology; GPA: 3.9/4.0, Rank: 3/25
 - First Prize of Scholarship of Sun Yat-sen University (Top 5%)
- ▲ **Applied Energy Summer School at Tsinghua University** *Jul 2019 – Aug 2019*
 - Sustainability in Cities: Environment-Energy-Socioeconomic Nexus

RESEARCH EXPERIENCE

- ▲ **Research Assistant, Tsinghua University**
 - Supervisor: Zhu Liu *Jun 2019 – Present*
 - Carbon budget, Sustainability science, Earth system science
- ▲ **Research on Global Simulations of Soil Respiration Based on Random Forest**
 - Supervisor: Wenping Yuan *Jul 2017 – Apr 2019*
- ▲ **Investigation of Crops in Northern China Using Aerial Photography**
 - Supervisor: Wenping Yuan *Aug 2018*

PUBLICATINOS

- ▲ Zhu Liu, Philippe Ciais, Zhu Deng, ... **Piyu Ke**, et al. Near-real-time monitoring of global CO₂ emissions reveals the effects of the COVID-19 pandemic. *Nature Communications*. 2020; 11, 5172.
- ▲ Zhu Liu, Philippe Ciais, Zhu Deng, ... **Piyu Ke**, et al. Carbon Monitor, a near-real-time daily dataset of global CO₂ emission from fossil fuel and cement production.

Scientific Data. 7, 392 (2020). <https://doi.org/10.1038/s41597-020-00708-7>

- ▲ Xinyu Dou, Zhu Deng, Taochun Sun, **Piyu Ke**, Biqing Zhu, Zhu Liu. Global and local carbon footprints of city of Hong Kong and Macao from 2000 to 2015. *Resources, Conservation and Recycling*. 2020; 164.
- ▲ Zhu Liu, Duo Cui, ... **Piyu Ke**, Dabo Guan, Peng Gong. Impact on China's CO₂ emissions from COVID19 pandemic. *Chinese Science Bulletin*. 2020.

CONFERENCES AND PRESENTATIONS

- ▲ iEMSs 2019 1st Regional Conference on Environmental Modeling and Software Asian Region, Nanjing, China: "Simulations of global soil respiration and a benchmarking-evaluation method for ecosystem models comparison based on random forest" (**Talk**)
- ▲ Undergraduates Scientific Research Conference 2018, Peking University, Beijing, China: "Research on Global Simulations of Soil Respiration Based on Random Forest" (**Talk**)

SKILLS

- ▲ Programming: Matlab, Fortran, R and Python
- ▲ Language: English (CET-6: 597), Chinese