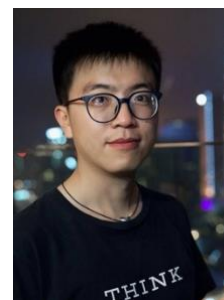


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RESEARCH INTEREST & PUBLICATIONS

High Resolution Emission Inventory:

Zhu Liu*, Philippe Ciais*, **Zhu Deng (co-first author)**, Steven J. Davis*, et al. **Carbon Monitor, a near-real time daily dataset of global CO₂ emissions from fossil fuel and cement production.** *Scientific Data*. 2020, 7, 392.

Zhu Liu*, Philippe Ciais, **Zhu Deng (co-first author)**, et al. **Near-real-time monitoring of global CO₂ emissions reveals the effects of the COVID-19 pandemic.** *Nature Communications*. 2020, 11, 5172.

Emission Accounting & Environmental Impacts:

Xinyu Dou, **Zhu Deng**, Taochun Sun, Piyu Ke, Biqing Zhu, Yuli Shan, Zhu Liu*. **Global and local carbon footprints of city of Hong Kong and Macao from 2000 to 2015.** *Resources, Conservation & Recycling*. 2021, 164, 105167.

Zhu Liu*, Jing Meng, **Zhu Deng**, Ping Lu, Dabo Guan, Qiang Zhang, Kebin He, Peng Gong. **Embodied Carbon Emissions in US-China Trade.** *Science China Earth Sciences*. 2020, 63, 1577–1586.

Duo Cui, **Zhu Deng**, Zhu Liu*. **China's non-fossil fuel CO₂ emissions from industrial processes.** *Applied Energy*. 2019, 254, 113537.

Spatial Analysis & Big Data:

Zhu Deng, Yuqi Bai*. **Floating car data processing model based on Hadoop-GIS tools.** *2016 Fifth International Conference on Agro-Geoinformatics*. 2016, pp.1-4.

EDUCATION

Tsinghua University

Ph.D. Student in Ecology Beijing, China
Supervisor: Zhu Liu (global highly cited researcher) 2016 - present

Sun Yat-sen University

B.S. in Geographic Information System & Remote Sensing Guangzhou, China
Minor in Information and Computer Science 2012 - 2016

TECHNIQUES AND SKILLS

Spatial analysis and modeling, matrix manipulation, data crawling and mining, data visualization.

Programming R (proficient), Python (proficient), JavaScript (professional), Matlab (skilled)

Software ArcGIS (proficient), QGIS (professional) for spatial data processing and analysis
ENVI (proficient) for remote sensing image processing

Language Mandarin (native), Cantonese (native), English (professional)

SELECTED HONORS & AWARDS

National Scholarship	2020	Merit Student, Beijing	2018
Outstanding graduate, Sun Yat-sen University	2016		