

# Sun Taochun

DEPARTMENT OF EARTH SYSTEM SCIENCE, TSINGHUA UNIVERSITY

Tel: +86 18600235022

Email: [stc20@mails.tsinghua.edu.cn](mailto:stc20@mails.tsinghua.edu.cn)

Twitter: @TaochunSun

Address: Tsinghua University, Beijing, 100084, China

Website: <https://suntaochun.github.io/>



## Fundamentals

---

**Language:** Chinese (native), English (proficient), Deutsch (amateur)

**Software:** ArcMap / ENVI / ERDAS / Python / Matlab / R / C / C++ .

**Courses:** advanced mathematics, matrix theory, statistics, advanced machine learning...

**Research:** the [Carbon Monitor](#) ; modelling and machine learning (deep learning) applications.

## Education

---

🌐 2020–Present	Graduate Student	Department of Earth System Science	Tsinghua University
🌐 2016–2020	B.E.(GPA: <b>3.69/5.0</b> )	CGIST	Capital Normal University
🌐 2016-2020	Minor	College English Department	Capital Normal University

## Selected Research

---

- Xu, Z.; Zhang, Z.; Zhong, R.; Chen, D.; **Sun, T.**; Deng, X.; Li, Z.; Qin, C.-Z. Content-Sensitive Multilevel Point Cluster Construction for ALS Point Cloud Classification. *Remote Sens.* 2019, *11*, 342.
- Liu, Z., Ciais, P., Deng, Z. *et al.* Near-real-time monitoring of global CO2 emissions reveals the effects of the COVID-19 pandemic. *Nat Commun* 11, 5172 (2020).
- Lu C, Adger W, Morrissey K, Zhang S, Venevsky S, Yin H, **Sun T**, *et al.* Distributional dimensions of health co-benefits from decarbonizing city-scale passenger transport: a scenario and risk assessment study. *Lancet Planetary Health.* 2021 (Under Review)
- Dou X, Deng Z, **Sun T**, *et al.* Global and local carbon footprints of city of Hong Kong and Macao from 2000 to 2015[J]. *Resources, Conservation and Recycling*, 164: 105167.
- Dou X, Liao C, Wang H, *et al.* Estimates of daily ground-level NO2 concentrations in China based on Random Forest model integrated K-means[J]. *Advances in Applied Energy*, 2021, 2: 100017.

## Honors and awards

---

- ✓ 2020: [Outstanding members of Tsinghua Summer League School for Graduate Students](#)  
(36/250+)

## Selected Publications of Student Work

---

- ✓ [Co-Leader of the Information & Technology group of the T+Z Technology Review](#) in Tsinghua Graduates Union
- ✓ [Volunteer in the International Service Group of Tsinghua University](#) (XiaoyanOnline)
- ✓ [Datapie Translation Group / International Department of Huitiandi](#)
- ✓ [Publicity Department of The Communist Youth League Committee of Tsinghua University Graduate Students](#)
- ✓ Academic Department of both the [Tsinghua Astronomy Society](#) and the SABRI