

Haoxuan Sun

Peking University, Beijing, China, 100871 | hxsun@pku.edu.cn

EDUCATION

Academy for Advanced Interdisciplinary Studies
Postgraduate

PEKING UNIVERSITY
Sep. 2019 - Present

School of Mathematical Sciences
B.S. in Statistics

PEKING UNIVERSITY
Sep. 2015 - Jun. 2019

School of Arts
B.S. in Arts (Double Degree)

PEKING UNIVERSITY
Sep. 2016 - Jun. 2019

RESEARCH EXPERIENCE

Electroencephalography Modeling
Postgraduate research, Supervised by Prof. SongXi Chen

Mar. 2021 - Present

COVID-19 Epidemics Modeling
Postgraduate research, Supervised by Prof. SongXi Chen

Jan. 2020 - Present

Air Quality Assessment
Postgraduate research, Supervised by Prof. SongXi Chen

Nov. 2018 - Present

Research on Applying Machine Learning Methods to Weather Report
Undergraduate research, Supervised by Prof. Pingwen Zhang

May. 2017 - May. 2019

REFERRED PUBLICATION

- Yan, H., Zhu, Y., Gu, J., Huang, Y., **Sun, H.**, Zhang, X., Wang, Y., Qiu, Y., Chen, S.X. (2021) Better Strategies for Containing COVID-19 Pandemic—A Study of 25 Countries via a vSIADR Model. *Proceeding of the Royal Society A*, 477(2248): 20200440.
- Gu, J., Yan, H., Huang, Y., Zhu, Y., **Sun, H.**, Qiu, Y. and Chen, S.X. (2020). Comparing containment measures among nations by Epidemiological Effects of COVID-19. *National Science Review*, 7: 1847–1851. doi: 10.1093/nsr/nwaa243.
- **Sun, H.**, Qiu, Y., Yan, H., Huang, Y., Zhu, Y., Gu, J. and Chen, S.X. (2020). Tracking reproductivity of COVID-19 epidemic in China with varying coefficient SIR model (with discussion). *Journal of Data Science*, 2020, 18(3): 455-472.

TECHNICAL REPORTS

- **Sun, H.**, Luo, S., You, W., Wang, Y., Zhan, H., Wang, X., Huang, Y., He, J., Guo, B. and Chen, S.X. (2021). Air Quality Assessment Report VIII: Regional Air Quality Assessment of the 3+95 Cities. Center for Statistics at Peking University.
- **Sun, H.**, You, W., Guo, B., Luo, S., Zheng, X., Han, T., Wang, X., Liu, R., Huang, Y., He, J., Chen, L., Wang, H. and Chen, S.X. (2020). Air Quality Assessment Report VII: Regional Air Quality Assessment of the 2+66 Cities. Center for Statistics at Peking University.
- **Sun, H.**, Guo, B., Wang, X., Huang Y. and Chen, S.X. (2019). Assessment of Air Quality in Shandong Province from 2014 to 2018. Center for Statistics at Peking University.
- Liu, H., Ye, F., **Sun, H.**, Guo, B., Liu R., Xiao, J., He, J., Zheng, X., Wang, H. and Chen, S.X. (2019). Air Quality Assessment Report VI: Regional Air Quality Assessment of the 2+43 Cities. Center for Statistics at Peking University.

AWARDS AND HONORS

- Merit Student of School of Peking University Oct 2020
- Academic Scholarship Oct 2020
- Merit Graduate of School of Mathematical Sciences Jul 2019
- Yizheng Alumni Scholarship Sep 2017
- Meritorious Prize in Jiang-Zehan Mathematical Modeling Contest of PKU May 2017

TEACHING ASSISTANT

Core R

Postgraduate course by A.P. Minya Xu

Mar. 2021 - May. 2021

Data Analysis and Statistical Software

Undergraduate course by A.P. Minya Xu

Sep. 2020 - Jan. 2021

ADDITIONAL SKILLS

- Language Skills: Mandarin (native), English (fluent).
- Programming Skills: R (current), Python, \LaTeX .
- Other interests: Orthodox Detective Fiction, Coffee Brewing.