

Haoxuan Sun

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EDUCATION

Academy for Advanced Interdisciplinary Studies <i>Postgraduate</i>	PEKING UNIVERSITY Sep. 2019 - Present
School of Mathematical Sciences <i>B.S. in Statistics</i>	PEKING UNIVERSITY Sep. 2015 - Jun. 2019
School of Arts <i>B.S. in Arts (Double Degree)</i>	PEKING UNIVERSITY Sep. 2016 - Jun. 2019

RESEARCH EXPERIENCE

Carbon Flux Assimilation <i>Postgraduate research, Supervised by Prof. SongXi Chen</i>	Oct. 2021 - Present
Electroencephalography Modeling <i>Postgraduate research, Supervised by Prof. SongXi Chen</i>	Mar. 2021 - Present
COVID-19 Epidemics Modeling <i>Postgraduate research, Supervised by Prof. SongXi Chen</i>	Jan. 2020 - Present
Air Quality Assessment <i>Postgraduate research, Supervised by Prof. SongXi Chen</i>	Nov. 2018 - Present
Research on Applying Machine Learning Methods to Weather Report <i>Undergraduate research, Supervised by Prof. Pingwen Zhang</i>	May. 2017 - May. 2019

REFERRED PUBLICATION

- Huang, Y., Guo, B., **Sun, H.**, Liu, H. and Chen, S.X. (2021) Relative importance of meteorological variables on air quality and role of boundary layer height. *Atmospheric Environment*, 2021, 267: 118737.
- 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.