1、形象照

2、简介：

职称：副教授
所在系所：经济统计系
专业方向：全球环境变化
研究方向：环境经济、机器学习与大数据
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个人简介:

薛文晧，2021 年北京师范大学博士毕业，青岛大学青年卓越引进人才。主要从事近地面空气污染物遥感反演及环境经济相关研究,参与开发的中国高分辨率高质量近地面空气污染物 CHAP 数据集被广泛应用。发表学术论文近 40 篇，其中 11 篇论文被评选为 ESI 高被引论文，论文总引用数超过 2000 次。主持国家自然科学基金青年项目一项，青岛市哲学社会科学规划项目一项。担任 Atmosphere、遥感学报专栏编辑，同时担任 Journal of Cleaner Production、Journal of Environmental Management、Energy Economics 等多家 SCI/SSCI 期刊审稿人。

3、详细介绍：

教育履历：

本科：2011 - 2015　北京建筑大学　测绘工程
博士：2016 - 2021　北京师范大学　全球环境变化（硕博连读）

近五年发表论文、出版的著作：

（1）第一/通讯作者发表论文
1. **Xue, W.,** Wang, L., Yang, Z., et al., 2023. Can clean heating effectively alleviate air pollution: An empirical study based on the plan for cleaner winter heating in northern China. Appl. Energy 351, 121923.
2. **Xue, W.,** Zhang, J., Zhong, C., et al. Spatiotemporal PM2.5 Variations and Its Response to the Industrial Structure from 2000 to 2018 in the Beijing-Tianjin-Hebei

Region. *Journal of Cleaner Production*, 2021, 279, 123742. (**SCI 一区，TOP，高被引论文**)

3 <u>**Xue, W.,**</u> Zhang, J., Qiao, Y., et al. Spatiotemporal Variations and Relationships of Aerosol-Radiation-Ecosystem Productivity over China during 2001-2014, *Science of the Total Environment*, 2020, 741C, 140324. (**SCI 一区，TOP**)

4. <u>**Xue, W.,**</u> Zhang, J., Zhong, C., et al. Satellite-derived Spatiotemporal PM2.5 Concentrations and Variations from 2006 to 2017 in China. *Science of the Total Environment*, 2020, 712, 134577. (**SCI 一区，TOP**)

5. <u>**Xue, W.,**</u> Zhang, J., Ji, D, et al. Aerosol-induced Radiative Forcing Effects on Terrestrial Ecosystem Carbon Fluxes over China, *Environmental Research*, 2021, 200, 111464. (**SCI 二区，TOP**)

6. <u>**Xue, W.,**</u> Wei, J., Zhang, J., et al. Inferring Near-Surface PM2.5 Concentrations from the VIIRS Deep Blue Aerosol Product in China: A Spatiotemporally Weighted Random Forest Model. *Remote Sensing*, 2021, 13(3), 505. (**SCI 二区，TOP**)

7. <u>**Xue, W.,**</u> Zhang, J., Hu, Xiao., et al. Hourly Seamless Surface O3 Estimates by Integrating the Chemical Transport and Machine Learning Models in the Beijing-Tianjin-Hebei Region. *International Journal of Environmental Research and Public Health*, 2022, 19(14):8511. (**SSCI 一区**)

8. <u>**Xue, W.,**</u> Li, X., Yang, Z., et al. Are House Prices Affected by PM2.5 Pollution? Evidence from Beijing, China. *International Journal of Environmental Research and Public Health*, 2022, 19(14):8461. (**SSCI 一区**)

9. <u>薛文晧</u>，张晶，周丽花，等. 华北地区夏季严重臭氧污染事件及气象要素分析. *北京师范大学学报(自然科学版)*, 2019, 55(1), 125-138.(**北大核心**)

10. Li, X., <u>**Xue, W.,**</u>† Wang, K., et al. Environmental Regulation and Synergistic Effects of PM2.5 Control in China. Journal of Cleaner Production, 2022, 337, 130438. (**SCI 一区，TOP，共同一作**)

11. Yang, Z., Li, Q., <u>**Xue, W.,**</u>* et al. Impacts of Nature Reserves on Local Residents' Income in China. *Ecological Economics*, 2022, 199, 107494.(**SSCI 一区，TOP**)

12. Hu, X., Zhang, J., <u>**Xue, W.,**</u>* et al. Estimation of the Near-Surface Ozone Concentration with Full Spatiotemporal Coverage across the Beijing-Tianjin-Hebei Region Based on Extreme Gradient Boosting Combined with a WRF-Chem Model, *Atmosphere*, 2022,13(4),632. (**SCI 三区，TOP**)

12. Tian, Y., Li, X., <u>**Xue, W.,**</u>* et al. Characteristics of Atmospheric Pollution and the Impacts of Environmental Management over a Megacity, Northwestern China, *Urban Climate*, 2022, 42(9), 101114. (**SCI 二区**)

14. Lu, T., Zhang, J., <u>**Xue, W.,**</u>* et al. Impacts of Aerosol Direct Radiative Forcing on Terrestrial Ecosystem Respiration in China from 2001 to 2014. *Atmospheric Research*, 2021, 260, 105713. (**SCI 一区, TOP**)

15. Yang, Z., Xiong, Z., <u>**Xue, W.,**</u>* et al. The Impact of Pollution Fee Reform on the Emission of Water Pollutants: Evidence from Manufacturing Enterprises in China. *International Journal of Environmental Research and Public Health*, 2022, 19(17):10660. (**SSCI 一区**)

（2）合作代表作

1. Wei, J., Liu, S., Li, Z., Liu, C., Qin, K.,Pinker, R.T., Dickerson, R., Lin, J., Boersma,

K., Sun, L., Li, R., **Xue, W.,** Cui, Y., Zhang, C., and Wang, J. Ground-level NO2 surveillance from space across China for high resolution using interpretable spatiotemporally weighted artificial intelligence, *Environmental Science & Technology*, 2022. (**SCI 一区，TOP，高被引论文**)

2. Wei, J., Li, Z., Li, K., Dickerson, R., Pinker, R., Wang, J., Liu, X., Sun, L., **Xue, W.,** and Cribb, M. Full-coverage Mapping and Spatiotemporal Variations of Ground-level Ozone (O3) Pollution from 2013 to 2020 across China. *Remote Sensing of Environment*, 2022.(**SCI 一区，TOP，高被引论文**)

3. Wei, J., Li, Z., Lyapustin A., Sun, L., Peng, Y., **Xue, W.,** Su T, and Cribb, M. Reconstructing 1-km-resolution High-quality PM2.5 Data Records from 2000 to 2018 in China: Spatiotemporal Variations and Policy Implications, *Remote Sensing of Environment*, 2021. (**SCI 一区，TOP，ESI 热点+高被引论文**)

4. Wei, J., Li, Z., Pinker, R., Wang, J., Sun, L., **Xue, W.,** Li, R., and Cribb, M. Himawari-8-derived diurnal variations of ground-level PM2.5 pollution across China using the fast space-time Light Gradient Boosting Machine (LightGBM). *Atmospheric Chemistry and Physics*, 2021. (**SCI 一区, TOP, 高被引论文**)

5. Wei, J., Li, Z., **Xue, W**. et al. The ChinaHighPM10 Dataset: Generation, Validation, and Spatiotemporal Variations. *Environment international*. 2021. (**SCI 一区，TOP，高被引论文**)

6. Wei, J., Li, Z., Cribb, M., Huang, W., **Xue, W.,** Sun, L., Guo, J., Peng, Y., Li, J., Lyapustin, A., Liu, L., Wu, H., and Song, Y. Improved 1 km resolution PM2.5 estimates across China using enhanced space-time extremely randomized trees, *Atmospheric Chemistry and Physics*, 2020. (**SCI 一区, TOP, 高被引论文**)

7. Wei, J., Huang, W., Li, Z., Xue, W., Peng, Y., Sun, L., and Cribb, M. Estimating 1-km-resolution PM2.5 Concentrations across China Using the Space-time Random Forest Approach, *Remote Sensing of Environment*, 2019 . (**SCI 一区，TOP，ESI 热点+高被引论文**)

8. Wei, J., Li, Z., Guo, J., Sun, L., Huang, W., **Xue, W.,** Fan, T, and Cribb, M. Satellite-derived 1-km-resolution PM1 Concentrations from 2014 to 2018 across China, *Environmental Science & Technology*, 2019. (**SCI 一区，TOP，高被引论文**)

9. Wei, J., Li, Z., Li, K., Dickerson, R., Pinker, R., Wang, J., Liu, X., Sun, L., **Xue, W.,** and Cribb, M. Full-coverage Mapping and Spatiotemporal Variations of Ground-level Ozone (O3) Pollution from 2013 to 2020 across China. *Remote Sensing of Environment*, 2022.(**SCI 一区，TOP，高被引论文**)

10. Zhong, C., Hu, R., Wang, M., Xue, W., and He, L. The Impact of Urbanization on Urban Agriculture: Evidence from China. *Journal of Cleaner Production*, 2020. (**SCI 一区，TOP**)

承担的省部级及以上科研项目

1. 国家自然科学基金青年基金项目，中国近地面臭氧反演及其对环境规制强度和协同度的响应研究，2023/01-2025/12，30 万元，在研，主持
2. 国家自然科学基金面上项目，气溶胶直接辐射效应对中国陆地生态系统生产力的影响，2016/03-2019/03，78 万元，已结题，项目骨干
3. 国家重点研发计划项目，全球变化驱动下陆表自然和人文要素相互作用及区域

表现，2017/07 - 2022/07，2284 万，已结题，参与

教授课程

Python 数据分析基础、Python 编程导论

学术兼职

（1）Atmosphere （SCI）客座编辑
（2）遥感学报（EI）专栏编辑
（3）中国现场统计研究会统计调查分会理事会理事
（4）山东省应用统计学会理事会理事