

# Sixuan Li

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Peking University  
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## EDUCATION

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2017 – 2022	<b>Ph.D., Physics</b> Dissertation: <i>Ultra-trace Pu in the Chinese Environment: Determination and Data Analysis</i> Advisor: Prof. Qiuju Guo	Peking University, China
2012 – 2017	<b>B.Sc., Physics</b>	Peking University, China

## EMPLOYMENT

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2025.03 – Present	<b>Postdoctoral Fellow</b>	National School of Development, Peking University
2023.03 – 2025.03	<b>Algorithm Engineer</b>	Beijing Xiaoying Technology Co., Ltd.
2022.07 – 2022.12	<b>Quantitative Researcher</b>	Qianhai Zhurong Technology Co., Ltd.
2018 Fall	<b>Teaching Assistant</b>	Department of Physics, Peking University

## RESEARCH INTERESTS

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Road network extraction; Remote sensing; Geospatial data analysis; Image processing; AI application; Medical image analysis; Environmental radioactivity.

## PUBLICATIONS (Google Scholar)

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**S. Li**, Y. Ni, Q. Guo, Plutonium in the coastal seawater around Chinese nuclear power plants: sources, distribution, and environmental implications. *Marine Pollution Bulletin* 207, 116882, 2024.

Y. Chen, **S. Li**, Y. Li, M. Atari, Surveying the dead minds: Historical-psychological textanalysis with contextualized construct representation (CCR) for classical Chinese. *The 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2024.

**S. Li**, Y. Ni, Q. Guo, Sources and variability of plutonium in Chinese soils: a statistical perspective with moving average. *Atmosphere* 13(5), 769, 2022.

**S. Li**, W. Huang, H. Xu, Q. Guo,  $^{239+240}\text{Pu}$  concentration and  $^{240}\text{Pu}/^{239}\text{Pu}$  isotope ratio in surface seawater of the Northwest Pacific. *Atomic Energy Science and Technology* 55(4), 751-760, 2021. (In Chinese)

Y. Ni, Q. Guo, Z. Huang, J. Zheng, **S. Li**, W. Huang, W. Bu, First study of  $^{237}\text{Np}$  in Chinese soils: Source, distribution and mobility in comparison with plutonium isotopes. *Chemosphere* 253, 126683, 2020.

Q. Guo, Y. Ni, **S. Li**, Distribution of significant transuranic nuclides in environmental soils in China. *Atomic Energy Science and Technology* 53(10), 2083-2091, 2019. (In Chinese)

Y. Ni, Z. Wang, Q. Guo, J. Zheng, **S. Li**, J. Lin, Z. Tan, W. Huang, Distinctive distributions and migrations of  $^{239+240}\text{Pu}$  and  $^{241}\text{Am}$  in Chinese forest, grassland and desert soils. *Chemosphere* 212, 1002-1009, 2018.

Z. Wang, J. Lin, **S. Li**, Q. Guo, W. Huang, W. Wen, G. Dan, Z. Tan, Rapid method for accurate determination of actinides (U, Th, Pu, and Am) in water samples for emergency response. *J Radioanal Nucl Chem* 315(1), 103-110, 2018.

## **PUBLICATIONS IN PROGRESS**

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**S. Li**, Y. Li, Z. He, Y. Chen, X. Li, C. Fan, X. Zhou, M. H. Teicher, Y. Ye, T. Long, AnaX: Anatomy-Aware Hybrid Network for ADHD fMRI Diagnosis. (Submitted to *MICCAI 2025*)

Z. Jiang\*, **S. Li**\*, H. Luan, X. Chen, J. Lu, Additively manufactured super high strength crack-free nickel-based superalloy by AI-assisted high-throughput design. (In preparation)

## **INVITED TALKS**

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**S. Li**, Q. Guo (2021). "Modelling the migration of plutonium in soils in China", The 6th International Conference on Environmental Radioactivity, online.

**S. Li**, Y. Ni, Q. Guo (2019). "Study on plutonium in seawater collected around several nuclear power plants", The 7th International Conference on Radiation in Various Fields of Research, Herceg Novi, Montenegro.

**S. Li**, Y. Ni, Q. Guo (2018). "Terrestrial distribution of plutonium in China: a review of published data", Plutonium Futures - The Science 2018, San Diego, USA.

## **SKILLS**

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Python, MATLAB, Bash, Slurm, Git, ArcGIS, QGIS