

Stanford



Lijing Wang

- Ph.D. Student in Geological Sciences
- Ph.D. Minor, Computer Science
- Stanford Student Employee, Stanford Data Science Initiative
- 📄 Curriculum Vitae available Online

Bio

BIO

Lijing is a Ph.D. candidate in the Department of Geological Sciences at Stanford University. Her research focuses on using data-driven methods for efficient and sustainable groundwater exploration and exploitation. She is currently working on 1) geomodelling with electromagnetic images using computer vision methods and 2) Bayesian uncertainty quantification method for reservoir predictions and further decision making. She is passionate about teaching data science methods to geoscience audiences and the broader scientific community.

HONORS AND AWARDS

- Stanford Data Science Scholars 2020-2022, Stanford Data Science Institute (09/2020)
- GS Travel Fund Award 2021, Stanford University (10/2020)
- Harriet Benson Fellowship Award, Stanford University (06/2020)
- Second Prize and Best use of Planet Data, Stanford Big Earth Data Hackathon (04/2018)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Co-President, Association of Chinese Students and Scholars at Stanford (2019 - 2020)
- Student Organizing committee, Women in Data Science @ Stanford Earth (2019 - 2019)

EDUCATION AND CERTIFICATIONS

- B.S., Peking University , Applied Mathematics (2017)
- B.S., Peking University , Space Physics (2017)

STANFORD ADVISORS

- Jef Caers, Doctoral (Program)

Professional

WORK EXPERIENCE

- Data Science Intern, AI & Geosciences Program - Total E&P (6/15/2020 - 9/11/2020)
- Guest PhD Student - HydroGeophysics Group, Department of Geoscience, Aarhus University (6/12/2019 - 7/17/2019)
- Teaching Assistant: GS 240 Data Science for Geoscience - Stanford University (1/1/2019 - 3/29/2019)

Publications

PUBLICATIONS

- **Global Sensitivity Analysis of a Reactive Transport Model for Mineral Scale Formation During Hydraulic Fracturing** *Environmental Engineering Science*
Li, Q., Wang, L., Perzan, Z., Caers, J., Brown Jr., G. E., Bargar, J. R., Maher, K.
2021
- **Quantifying the Effect of Precipitation on Landslide Hazard in Urbanized and Non-Urbanized Areas** *Geophysical Research Letters*
Johnston, E. C., Davenport, F. V., Wang, L., Caers, J. K., Muthukrishnan, S., Burke, M., Diffenbaugh, N. S.
2021; 48 (16)
- **Probabilistic Evaluation of Geoscientific Hypotheses with Geophysical Data: Application to Electrical Resistivity Imaging of a Fractured Bedrock Zone** *Journal of Geophysical Research: Solid Earth*
Miltenberger, A., Uhlemann, S., Mukerji, T., Dafflon, B., Williams, K., Wang, L., Wainwright, H.
2021; 126
- **Semantic Segmentation of Crop Type in Africa: A Novel Dataset and Analysis of Deep Learning Methods** *CVPR 2019*
Rustowicz, R. M., Cheong, R., Wang, L., Ermon, S., Burke, M., Lobell, D. B.
2019