ZHI LI

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120 David L Boren Blvd, Norman, OK 73072

EDUCATION

University of Oklahoma (OU) *Aug. 2019 — Ongoing*
Ph.D. candidate in Civil & Environmental Science
Hydrometeorology and Remote Sensing Laboratory
Specification in remote sensing precipitation retrieval and hydrologic evaluations.

National University of Singapore (NUS) *Aug. 2017 — Jan. 2019*
M.Sc in Civil & Environmental Engineering
Major in Hydraulic Engineering & Water Resources Management
Overall GPA: 4.68/5.0

Technical University of Delft (TUD) *Feb. 2018 — Jul. 2018*
Exchange in Civil Engineering & Geosciences
Major in Water Resources Management
Overall GPA: 8.43/10.0

Hohai University *Sep. 2013 — Jul. 2017*
B.Eng in Water Conservance & Hydropower Engineering
Overall GPA: 4.48/5.0
Average Score: 86.1

WORKING EXPERIENCE

Teaching Assistant, *CEES5020-992 Fundamental Hydrology* *May. 2020 — Aug. 2020*
Teaching Assistant, *CEES5020-997 Quantitative Hydrometeorology* *Jan. 2020 — May 2020*
Teaching Assistant, *CEES2113 Statics* *Aug. 2019 — Jan. 2020*
Data Scientist, *Hydroinformatics Institute* *Jan. 2019 — July. 2019*

PROJECTS

- twenty-year IMERG data evaluation: similarities, differences *Aug. 2019 — Ongoing*
- Cross-examination of Uncertainties in Extreme Precipitation Events using Multiplicative Triple Collocation *Aug. 2019 — Ongoing*
- Radar Rainfall Monitoring and Nowcasting System For Urban Flood Management in Singapore, Data Scientist, *Hydroinformatics Institute* *Jan. 2019 — Ongoing*
- Radar Rainfall Monitoring and Nowcasting System For Urban Flood Management in Singapore, Data Scientist, *Hydroinformatics Institute* *Jan. 2019 — Ongoing*
- CCTV Rainfall Camera, Data Scientist, *Hydroinformatics Institute* *Feb. 2019 — Ongoing*
- Outdoor Thermal Comfort in Urban Spaces in Singapore, Research Asistant, *National University of Singapore* *Aug. 2018 — Nov. 2018*
- Genetic Programming in Hydrology, Master Thesis, *National University of Singapore* *Aug. 2018 — Nov. 2018*
- Arch Dam Design, Bachelor Thesis, *Hohai University* *Feb. 2017 — Jul. 2017*

PUBLICATIONS

• **Li, Z.**, Tang, G., Hong, Z., Chen, M., Gao, S., Kirstetter, P., Gourley, J.J., Wen, Y., Yami, T., Nabih, S., Hong, Y. (2021). Two-decades of GPM IMERG Early and Final Run products intercomparison: Similarity and Differences in Climatology, Rates, and Extremes, Journal of Hydrology, doi: 10.1016/j.jhydrol.2021.125975.

• **Li, Z.**, Wen, Y., Schreier, M., Behrangi, A., Hong, Y., Lambrigtsen, B. (2020). Advancing satellite precipitation retrievals with data driven approaches: is black box model explainanle? Earth and Space Science, 7, e2020RA001423. https://doi.org/10.1029/2020EA001423.

• **Li, Z.**; Chen, M.; Gao, S.; Hong, Z.; Tang, G.; Wen, Y.; Gourley, J.J.; Hong, Y. Cross-Examination of Similarity, Difference and Deficiency of Gauge, Radar and Satellite Precipitation Measuring Uncertainties for Extreme Events Using Conventional Metrics and Multiplicative Triple Collocation. Remote Sens. 2020, 12, 1258.

• Sui, X., **Li, Z.**, Ma, Z., Xu, J., Zhu, S., Liu, H., Ground Validation and Error Sources Identification for GPM IMERG Product over the Southeast Coastal Regions of China. Remote Sensing. 2020,12,4154.

• Bibliometric Analysis of Research on Fish Metal from 1997 to 2016, Co-author, Natural Hazards.

• Investigation and Thoughts on Accurate Solutions to Drinking Water Safety Issues of Poor Rural Areas of Qianjiang District, First Author, Energy Economy (ISSN 1672-0351)

• An Analysis of the Vibration Performance of Underground Powerhouse of a Certain Pumped Storage Power Station, First Author, Energy Economy (ISSN 1672-0351)

SOFTWARES

• The Coupled Routing and Excess STorage model - inundation MApping and Prediction (CREST-iMAP)

TECHNICAL STRENGTHS

Programming Languages	Python (Proficient), QGIS (Proficient), Matlab, R, Fortran
Skills	Machine Learning, Geospatial Data Processing, Remote Sensing, Computer Vision, Web Development, LaTeX
Hydologic models	SUPERFLEX, HBV, FLEX-TOPO, CREST, CREST-iMAP
Artificial Intelligience	ANN, RNN, CNN, SVM, RF, etc.

CERTIFICATIONS

• Graduate Colleage Hoving Fellowship

• Teaching Assistant at university of Oklahoma

• Research Assistant at university of Oklahoma

• Academic Scholarship at Hohai University

• Social Work Scholarship at Hohai University

• Spiritual and Cultural Scholorship at Hohai University

• Excellent Student Leader Award at Hohai University

• The Third Prize in the Video Production Competition at Hohai University

• The Third Prize and The Best Appealing Award at the Dam Design Competition

- Excellent Volunteer Award of the 2014 Nanjing Youth Olmpic games

LANGUAGE

Chinese	Excellent
English	Good