

Huan Li

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Profile

With a strong passion for Remote Sensing and Geographic and Information Science, I have explored various Earth Science applications through interdisciplinary collaborations. I specialized in processing, analyzing, and visually exploring extensive RS and geospatial datasets based on cloud platforms like Google Earth Engine, with a focus on Cryosphere, global water cycle, ecological environment, economy, and climate change. Notably, I pioneered innovative algorithms for satellite altimetry to accurately retrieve sea ice thickness and volume using high-performance computing, revealing spatiotemporal patterns in circum-Antarctic sea ice. My expertise in remote sensing and geospatial big data processing have also contributed to commercial applications for several companies.

Professional experience

Balaton Limnological Research Institute, Hungary

01/04/2022 – present, Senior Research fellow, **Remote Sensing-based environment monitoring**

Peking University, School of Earth and Space Sciences, China

13/09/2018 – 31/03/2022, Post-doc, **Cryosphere and big data mining**

Tsinghua University, State Key Laboratory of HydroScience and Engineering, China

15/07/2016 – 15/07/2018, Post-doc, **Remote sensing hydrology and economic application**

Education

Wuhan University, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, China

01/09/2012 – 01/07/2016, **Ph.D.**, Cartography and Geographic Information Engineering

-Thesis: *Active On-demand Real-time Provision for the High Frequency and Low Volume Sensor Web Data* (**Supervisor**: Prof. Hong Fan)

01/09/2010 – 01/07/2012, **M.S.**, Surveying Engineering (**Supervisor**: Prof. Hong Fan)

Wuhan University, School of Remote Sensing and Information Engineering, China

01/09/2006 – 01/07/2010, **B.S.**, Geographic Information System

Huazhong University of Science and Technology, School of Foreign Languages, China

01/09/2008 – 01/07/2010, **B.S.**, Japanese

Publications (H-index:17, i10-index:23, Citations: 1k+)

Peer-reviewed articles as the (co-)first author or corresponding author (* is corresponding)

1. Li, H., Somogyi, B., Chen, X., Wei W., Zheng D., R. Iestyn Woolway, and Tóth, V.R. (2026). "Four decades of satellite observations reveal climate-driven shifts and spatial heterogeneity in shallow lake Chlorophyll-a dynamics." *Water Research* 289:124925. (**IF: 12.4**)
2. Li, H., Somogyi, B., Chen, X., Luo, Z., Blix, K., Wu, S., Duan, Z. and Tóth, V.R. (2025) Leveraging Landsat and Google Earth Engine for long-term chlorophyll-a monitoring: A case study of Lake Balaton's water quality. *Ecological Informatics* 90, 103245. (**IF: 7.3**)
3. Li, H., et al. (2024), 'Exploring spatiotemporal features of surface water temperature for Lake Balaton in the 21st century based on Google Earth Engine'. *Journal of Hydrology* 640, 131672. (**IF: 6.9**)
4. Li, H., Sun, J., Zhou, Q., Sojka, M., Ptak, M., Luo, Y., Wu, S., Zhu, S. and Tóth, V.R. (2024), '150-year daily data (1870–2021) in lakes and rivers reveals intensifying surface water warming and heatwaves in the Pannonian Ecoregion (Hungary).' *Journal of Hydrology: Regional Studies* 56, 101985. (**IF: 5.0**)
5. Zhu, S., Wan, W.*, Zhang, G., ..., and Li, H*. (18 authors in total, 2024). 'Exploring the topographical pattern beneath the water surface: Global Bathymetric Volume-Area-Height curves (BVAH) of inland surface water bodies.' *Geodesy and Geodynamics*. (**IF: 3.3**)
6. Li, H., et al. (2023), 'Inspects and prospects of satellite remote sensing monitoring ability for land surface water in China,' *National Remote Sensing Bulletin*: 27. (**A review article in Chinese**)
7. Luo, Z., Li, H.*, et al. (2023), "A Novel Two-Step Method for Enforcing Water Budget Closure and an Intercomparison of Budget Closure Correction Methods Based on Satellite Hydrological Products", *Water Resources Research*:59. (**IF: 5.1**)
8. Geng, X., Li, H.*, et al. (2022), "Potential of ANN for Prolonging Remote Sensing-based Soil Moisture Products for Long-term Time Series Analysis", *IEEE Geoscience and Remote Sensing Letters*: 19. (**IF: 4.4**)
9. Xu, Y., Li, H.*, Liu, B., Xie H., and Ozsoy - Cicek B. et al. (2021), 'Deriving Antarctic Sea - Ice Thickness From Satellite Altimetry and Estimating Consistency for NASA's ICESat/ICESat - 2 Missions' , *Geophysical Research Letters*. e2021GL093425 (**IF: 4.6**)

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10. Li, H., et al. (2021). "A remote sensing-based area dataset for approximately 40 years that reveals the hydrological asynchrony of Lake Chad based on Google Earth Engine. *Journal of Hydrology* 603:126934. (**IF: 6.9**)
 11. Li, H., Wan, W., Hong, Y., et al. (2019), "A Google Earth Engine-Enabled Software for Efficiently Generating High-Quality User-Ready Landsat Mosaic Images." *Environmental Modelling & Software* 112 (**IF: 5.2**)
 12. Fang, Y. #, Li, H.#, Wan, W., Zhu, S., Wang, Z., et al. (2019). "Assessment of Water Storage Change in China's Lakes and Reservoirs over the Last Three Decades." *Remote Sensing* 11(12): 1467. (**Co-first author, IF: 4.2**)
 13. Li, H., Xie, H.*., Kern, S., Wan, W., Ozsoy, B., Ackley, S., Hong, Y. (2018), "Spatio-temporal variability of Antarctic sea-ice thickness and volume obtained from ICESat data using an innovative algorithm." *Remote Sensing of Environment* 219: 44-61. (**IF: 11.4**)
 14. Li, H., Fan, H. and Mao, F. (2016). "A Visualization Approach to Air Pollution Data Exploration—A Case Study of Air Quality Index (PM2.5) in Beijing, China." *Atmosphere* 7(3): 35. (**IF: 2.4**)
 15. Li, H., Fan, H., Li, J. and Chen, N. (2016). "Pull-Based Modeling and Algorithms for Real-Time Provision of High-Frequency Sensor Data from Sensor Observation Services." *ISPRS International Journal of Geo-Information* 5(4): 51. (**IF: 2.8**)
 16. Li, H., Fan, H. and Feng, H. (2012). "Real-time snow and rain rendering in 3D GIS environment," *Journal of Image and Graphics*: 1548-1553. (**In Chinese**)

Peer-reviewed articles as co-author (D1 is 10% ranking journals)

1. Luo, Z., ..., and Li, H. (2026). "A framework for assessing the impact trends of neglecting water surface evaporation and substituting streamflow on water budget closure." *Journal of Hydrology* 664:134391. (**D1**)
2. Gao, Y., Luo, Z., Liu, H., Wang, L., Chen, X., and Li, H., 2026. "Reconstruction of global long-term daily streamflow dataset using machine learning models for revealing streamflow changes." *Journal of Hydrology: Regional Studies* 64:103148. (**D1**)
3. Luo, Z., and Li, H.. (2025) A novel method for correcting water budget components and reducing their uncertainties by optimally distributing the imbalance residual without full closure. *Hydrology and Earth System Sciences* 2025, 1-59. (**D1**)
4. Lin, S., Chen, X., Liang, S., Liu, Y., Li, Y. and Li, H. (2025) Monthly 0.05° winter months snow depth dataset for the Northern Hemisphere from 21 CMIP6 models. *Scientific Data* 12(1), 603. (**D1**)
5. Hu, J., Luo, Z., Gao, Y., Wang, L., Huang, H., Chen, X., and Li, H. (2025). 'A century-long streamflow reconstruction reveals significant streamflow increases in the upper Yangtze River basin' *Catena* 250, 108774. (**D1**)
6. Somogyi, B., Li, H., et al. (2024), "Regime shift in microalgal dynamics: Impact of water level changes on planktonic and benthic algal biomass". *Science of The Total Environment* 929,172351(**D1, geospatial analysis**)
7. Zhu, S., Tang, G., Yan, S., Du, Y., Xu, Y., Zhang, M., Chen, M., Li, H. and Hong, Y. (2025) A New Approach to Identifying and Analyzing Precipitation Events and Their Typical Lifecycles Over Conterminous United States. *Geophysical Research Letters* 52(14), e2025GL115640.
8. Ptak, M., Zhu, S., Amnuaylojaroen, T., Li, H., et al. (2024), "Utilizing Multi-Source Datasets for the Reconstruction and Prediction of Water Temperature in Lake Miedwie (Poland)". *Remote Sensing*, 16(15), 2753. (**Contribution: I retrieved the four-decade water temperature of the lake based on remote sensing**)
9. Liu, B., Wan, W., Tang, G., Li, H., et al. (2022) Statistical Analysis of CyGNSS Speckle and Its Applications to Surface Water Mapping. *IEEE Transactions on Geoscience and Remote Sensing* 60, 1-15. (**Contribution: I joined conceptual design and draft review and edit**)
10. Chen, X., Y. Yang, Y. Ma and Li, H. (2021). "Distribution and Attribution of Terrestrial Snow Cover Phenology Changes over the Northern Hemisphere during 2001–2020." *Remote Sensing* 13(9): 1843. (**Q1**)
11. Li, B., Y. Cui, X. Geng and Li, H. (2021). "Improving the Evapotranspiration Estimation under Cloudy Condition by Extending the Ts-VI Triangle Model." *Remote Sensing* 13(1516): 1516 (**Q1, guiding the doctoral student first author**)
12. Luo, Z., Q. Shao, W. Wan, Li, H., et al. (2021). "A new method for assessing satellite-based hydrological data products using water budget closure." *Journal of Hydrology* 594: 125927. (**Contribution: I am involved in hydrological data collection and paper editing**)
13. Wang, X., W. Jiang, H. Xie, S. Ackley and Li, H. (2020). "Decadal variations of sea ice thickness in the Amundsen-Bellingshausen and Weddell Seas retrieved from ICESat and IceBridge laser altimetry, 2003-2017." *Journal of Geophysical Research: Oceans*: e2020JC016077. (**D1**)
14. Wan, W., R. Ji, B. Liu, Li, H. et al. (2020). "A Two-Step Method to Calibrate CYGNSS-Derived Land Surface Reflectivity for Accurate Soil Moisture Estimations." *IEEE Geoscience and Remote Sensing Letters*. (**Contribution: I joined designing the soil moisture algorithm**)
15. Fang, W., Wang C., Chen, X., Wan, W., Li, H., et al. (2019). "Recognizing Global Reservoirs From Landsat 8 Images: A Deep Learning Approach." *IEEE Journal of Selected Topics in Applied Earth Observations and*

- Remote Sensing.* (**Contribution:** I joined reservoir data collection, designing the machine learning algorithm, and editing the paper)
16. Liu B., Wan, W., Xie, H., **Li H.**, Zhu, S., Zhang, G., Wen, L., Hong, Y. (2019), "A long-term dataset of lake surface water temperature over the Tibetan Plateau derived from AVHRR 1981–2015." *Scientific Data* 6(1):48 (**Contribution:** I joined temperature data collection and process)
 17. Zhu, S., Liu, B., Wan, W., Xie, H., Fang, Y., Chen, X., **Li H.**, et al. (2019). "A New Digital Lake Bathymetry Model Using the Step-Wise Water Recession Method to Generate 3D Lake Bathymetric Maps Based on DEMs." *Water* 11(6): 1151. (**Contribution:** I joined designing the math model for deriving the lake bathymetry and editing the paper)
 18. Chen, X., Shen, X., **Li, H.**, et al. (2019) "Construct Channel Network Topology from Remote Sensing Images by Morphology and Graph Analysis." *IEEE Geoscience and Remote Sensing Letters*: 1-5. (**Contribution:** I joined developing the channel network topology algorithm)
 19. Wan, W., Zhao, L., Xie, H., Liu B., **Li, H.**, et al. (2018). "Lake surface water temperature change over the Tibetan Plateau from 2001–2015: A sensitive indicator of the warming climate." *Geophysical Research Letters* 45(20): 11-177 (**Contribution:** I joined water temperature data collection and trend analysis)
 20. Zhu, S., Wan, W., Liu, B., **Li, H.**, et al. (2018), "An Efficient and Effective Approach for Georeferencing AVHRR and GaoFen-1 Imageries Using Inland Water Bodies," *IEEE Journal of selected topics in applied earth observations and remote sensing* 11(7): 2491-2500 (**Contribution:** I joined designing the image matching algorithm and editing the paper)
 21. Wang, Y., Fan, H., Chen, R., **Li, H.**, et al. (2018), "Positioning Locality Using Cognitive Directions Based on Indoor Landmark Reference System," *Sensors*: 1049. (**Contribution:** I joined the paper writing and editing)
 22. Wan, W., **Li, H.**, Xie, H., Hong, Y., Long, D., Zhao, L., et al. (2017). "A comprehensive data set of lake surface water temperature over the Tibetan Plateau derived from MODIS LST products 2001-2015," *Scientific Data*, vol. 4, p. 170095. (**D1, core data producer**)
 23. Yu, Y., Guan, X., **Li, H.**, Wu, H. (2017). "Design and optimization of real-time sensor data ingestion based on linear programming." *Journal of Geomatics*: 35-38. (In Chinese, **Contribution:** I joined designing the experiment workflow and editing the paper)

Peer-reviewed conference papers

1. **Li, H.**, Blix, K., Somogyi, B., Tóth V., et al. (2023), "Retrieving chlorophyll-a concentration for lake Balaton with Landsat based on Google Earth Engine," *IEEE Geoscience and Remote Sensing Symposium*.
2. Chen, X., Sheti, W., **Li, H.**, et al. (2020), "Ship Navigation Route Planning Using Topology of Sea Ice Channels Extracted from High Resolution Satellite Images," *IEEE Geoscience and Remote Sensing Symposium*. (**Contribution:** I joined the design of the route planning algorithm)
3. **Li, H.**, Zeng, C., Wan, W., Hong, Y., et al. (2019), "A Remote Sensing-based Vacancy Area Index for Estimating Housing Vacancy and Ghost Cities in China," *IEEE Geoscience and Remote Sensing Symposium*.
4. **Li H.**, C. Zeng, W. Wan, Y. Cui, Y. Hong and W. Fan (2019). A Remote Sensing-based Vacancy Area Index for Estimating Housing Vacancy and Ghost Cities in China. *IGARSS 2019-2019 IEEE International Geoscience and Remote Sensing Symposium*, IEEE.
5. **Li, H.**, et al. (2018). "Can Crowdsourcing Support Remote Sensing Image Classification?", *The 26th International Conference on GeoInformatics*.
6. Zhao, S., Fan, H., and **Li, H.** (2016). "The relationship between cigarette sales and the economy in Guizhou province," *2016 Fifth International Conference on Agro-Geoinformatics*: 1-5. (**Contribution:** All experiments)
7. Fan, H., **Li, H.*** (2015). "An on-demand provision model for geospatial multisource information with active, self-adaption services," in *2015 SPIE Ninth International Symposium on Multispectral Image Processing and Pattern Recognition*: 98150B-98150B-8.
8. **Li, H.**, Fan, H., et al. (2014). "ReSDaP: A Real-Time Data Provision System Architecture for Sensor Webs," In *2014 Web and Wireless Geographical Information Systems*, Springer: 85-99.

Book chapter

Shi, W., **Li, H.**, Hong Y. (2017). "Dynamic correlation analysis of the stock markets of China and United States based on big financial system data," In "Practical Case Study of Big Data in Financial Industry," Editor Liu, S. Economic Science Press: 145-164. (In Chinese)

Conference Presentations

- 05/11/2025 "Satellite Remote Sensing for Environmental Monitoring Under Climate Change: From Surface Water to Lake Ecosystems", *HUN-REN – NTU project seminar*, Nanyang Technological University Centre for Computational Data Science, Singapore
- 14/03/2025 "Remote Sensing Supported Long-term and Large-scale Surface Water Data Retrieval", *Fresh Blood for Freshwater 2025*, HUN-REN Institute of Aquatic Ecology, Hungary (**Invited as a session chair**)
- 02/10/2024 "Exploring Spatiotemporal Patterns of Surface Water Temperature: Lake Balaton in the 21st Century

- and Pannonian Rivers and Lakes Over 150 Years”, *Hydrobiological Day 2024*, Tihany, Hungary
- 17/04/2024 “Unveiling Spatio-Temporal Patterns of Water Temperature in Lake Balaton Through Remote Sensing Data Analysis”, *European General Assembly 2024 (EGU 2024)*, Vienna, Austria
- 17/07/2023 “Remote sensing-based nearly 40-year Chlorophyll-a concentration retrieval for Lake Balaton”, *International Geoscience and Remote Sensing Symposium 2023 (IGARSS 2023)*, Pasadena, USA
- 27/04/2023 “Small lakes on Tibetan Plateau act as a climate change indicator”, *EGU 2023*, Vienna, Austria
- 20/10/2020 “Hydrological features of Lake Chad revealed by nearly 50-year water area dataset based on GEE”, *Google Geo for Good 2020 user summit*, California, USA
- 17/10/2020 “Latest progress of global surface water mapping with Google Earth Engine”, *The second national geospatial big data and cloud-computing workshop*, by State Key Laboratory of RS Science, China
- 01/11/2019 “Review of global surface water mapping with Google Earth Engine”, *The first national geospatial big data and cloud-computing workshop*, held by State Key Laboratory of RS Science, China
- 17/10/2019 “AWATer: water area and quality change for global lakes”, *Google Geo for Good*, California, USA
- 02/08/2019 “A Remote Sensing-based Vacancy Area Index for Estimating Housing Vacancy and Ghost Cities in China”, *International Geoscience and Remote Sensing Symposium 2019*, Yokohama, Japan
- 14/12/2018 “Improved Antarctic sea ice thickness and volume retrieval and trend analysis”, *AGU 2018*, USA
- 23/06/2018 “Spatial Variabilities and Trend Analysis of the Antarctic Sea Ice with ICESat”, *POLAR 2018*, Davos, Switzerland
- 01/11/2015 “An on-demand provision model for geospatial multisource information with active, self-adaption services”, *Ninth International Symposium on Multispectral Image Processing and Pattern Recognition (MIPPR 2015)*, Hubei, China

Prizes and Awards

- 20/12/2021 **Annual Best Paper**, Institute of Remote Sensing and Geographic Information System (IRGIS), Peking University, China
- 26/05/2019 **First Prize**, The First Youth Forum of IRGIS, Peking University, China
- 24/12/2018 **Annual Best Paper**, IRGIS, Peking University, China
- 15/10/2017 **Second prize**, The seventh Teaching Contest of Young Teachers of School of Civil Engineering, Tsinghua University, China
- 27/11/2015 **Excellent paper award**, The Fourth Graduate Student Forum of National Remote Sensing and Geographic Information Science, Nanking University, China
- 08/12/2013 **Third prize**, The Third Graduate Student Forum of National Remote Sensing and Geographic Information Science, Wuhan University, China
- 18/09/2011 **Excellent paper award**, The Second Graduate Student Forum of National Remote Sensing and Geographic Information Science, Chinese Academy of Sciences, China

Fundings Received

- 01/09/2025 – 31/12/2025 **HUN-REN – NTU AI Research Cooperation Programme 2025 (PI)**
 -Title: *Perceptual AI Framework for Integrated Satellite and Multi-Source Aquatic Environment Monitoring (NTU-Nanyang Technological University, Singapore)*
- 01/05/2023 – 01/05/2024 **European Space Agency Network of Resources (NoR) Sponsorship (PI)**
 -Title: *Mining spatio-temporal patterns of 40-year surface water temperature for lakes and rivers in the Pannonian ecoregion*
- 01/01/2020 – 31/12/2022 **Youth Found of National Natural Science Foundation of China (PI)**
 -Title: *Retrieving key parameters of circum-Antarctic sea ice with altimeter satellites and their spatio-temporal changes*
- 01/09/2019 – 01/09/2021 **China Post-doc Foundation (PI)**
 -Title: *Retrieving Antarctic sea-ice thickness and volume from ICESat and spatio-temporal variability analysis*
- 01/09/2014 – 30 /06/2015 **Ph.D. Studentship**
 Collaborative Innovation Center of Geospatial Technology, Wuhan University, China

Granted Chinese Patents

- 15/01/2025 **Li H.**, Liu Z., Gap-Filling Method and System for Surface Water Extent Mapping in Cloud-Contaminated Optical Remote Sensing Imagery (ZL 202211404673)
- 18/08/2023 **Li H.**, Ji R., Wan W., Hong Y., A method and system for large-scale surface water extent detection based on optical remote sensing imagery (ZL 202110570863.2)
- 20/12/2022 Chen X., Cui Y., Wen C., Yang T., **Li H.**, et al. “A method and system to measure universe water width for rivers” (ZL 202011285535.X) (**Contribution:** I participated in designing the algorithm for detecting water width)

25/06/2021 Chen X., Cui Y., Wan W., Lei T., **Li H.**, et al. “A method and system to construct topology for river channel networks” (ZL 201910937320.2) (**Contribution:** I took in charge of vectorizing the river channel networks)

Granted Chinese Software Copyright

01/11/2023 Xu Y., Liu B., Xiao L., **Li H.**, Polar Sea Ice Key Parameter Retrieval Algorithm Software V1.0 (ID: 2023SR1391226)

Participation in Industrial Innovation

01/02/2023 – 31/12/2025 Technical consulting of Environmental, Social, and Governance, ESGreen LLC., New York, USA (**As a startup, we got \$400,000 investment** in Jul. 2024)

01/04/2022 – 01/04/2024 Technical consulting of Remote Sensing applications, DataSea Inc., (NASDAQ: DTSS), Nevada, USA

Teaching

19/09/2022 **Invited lecturer**, “Image Classification using Machine Learning with Google Earth Engine”, UiT the Arctic University of Norway, Norway – Graduate

11/03/2022 **Invited lecturer**, “Remote Sensing of Cryosphere”, Peking University, China – Graduate

16/04/2021 **Invited lecturer**, “Cryosphere: Snow Cover, Glacier, Polar Ice Sheet, and Sea Ice”, Peking University, China – Graduate

16/05/2020 **Invited lecturer**, “Cryosphere”, Peking University, China – Graduate

06/05/2019 **Invited lecturer**, “Sea Ice Thickness and Volume Retrieval for Antarctic and Glacier Extent Delineation on Tibetan Plateau”, Peking University, China – Graduate

Supervising and Mentoring

01/09/2019 – 01/04/2022 Instructing an undergraduate student Yue Xu of Peking University, China

- publish a paper in **GRL** on sea ice, the 5% top ranking international journal in geography
- win **Excellent Award** of “Undergraduate Scientific Research Training of Peking University”
- win **Best Presenter** of “2021 International Graduate Workshop on Geoinformatics”
- obtain **software copyright** for the key parameter retrieval of polar sea ice
- get admitted as a **doctoral candidate** of Peking University with **full scholarship**

01/09/2012 – 01/07/2016 Instructing master students Luyao Wang, Dan Guo, and Yankun Wang of Wuhan University, China

- **coding skills** in C/C++/C# and MATLAB for taxi data processing, geolocating, web crawling
- **writing skills** for journal papers and their dissertations on indoor positioning, web information mining, and statistical analysis and visualization of marketing data
- **prepare lectures and poster presentations** at international geographic conferences

Serving as a Reviewer

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| <ul style="list-style-type: none">• Remote Sensing of Environment• Water Research• Earth Science Reviews• Agricultural Water Management• The Cryosphere• Earth System Science Data• Journal of Hydrology• Hydrological Sciences Journal• Computers and Geosciences• Results in Engineering• Remote Sensing• Sustainability | <ul style="list-style-type: none">• IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing• IEEE Transactions on Neural Networks and Learning Systems• IEEE Geoscience and Remote Sensing Letters• Hydrology and Earth System Sciences• Environmental Modelling and Software• International Journal of Applied Earth Observation and Geoinformation• International Journal of Digital Earth• Journal of Hydrology: Regional Studies• Terrestrial, Atmospheric and Oceanic Sciences• Frontiers in Earth Science• Remote Sensing Applications: Society and Environment |
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Shared Codes, Datasets and Software

- Satellite-based monitoring reveals climate-driven phenological shifts and spatial heterogeneity in shallow lake chlorophyll-a dynamics: <https://github.com/Scarlett-Huan-Li/shallow-water-chla> (**Water Research**, 2026)
- An interoperable software for inspecting the concentration of Chlorophyll-a in Lake Balaton from 1984 to present: <https://lihuan.projects.earthengine.app/view/chla-balaton> (**Ecological Informatics**, 2025)
- A 150-year daily water temperature record (1870–2021) for lakes and rivers in Central Europe: <https://doi.org/10.6084/m9.figshare.25549561.v1> (**Journal of Hydrology: Regional Studies**, 2024)
- Open code on GEE https://code.earthengine.google.com/?accept_repo=users/lihuan/Share_LakeBalaton and

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- an online software for water temperature of Lake Balaton in the 21st century, Hungary: <https://lihuan.users.earthengine.app/view/balaton> (*Journal of Hydrology*, 2024)
- Code and dataset for the global water budget with an innovative correction algorithm: <https://doi.org/10.6084/m9.figshare.20208026> (*Water Resources Research*, 2023)
 - Dataset for seasonal and monthly circum-Antarctic sea ice thickness (10 km grid scale) based on ICESat/ICESat-2: <https://doi.org/10.6084/m9.figshare.12910121> (*Remote Sensing of Environment*, 2018; *Geophysical Research Letters*, 2021)
 - Code, dataset and an online interoperable software for inspecting 40-year area change of Lake Chad, Africa: <https://lihuan.users.earthengine.app/view/lakechad> (*Journal of Hydrology*, 2021)
 - Code and online software for generating global high-quality user-ready Landsat mosaics: [https://gist.github.com/scarrottlee/eda18ca801213429636e7a0764b5b59f](https://gist.github.com/scarlettlee/eda18ca801213429636e7a0764b5b59f) (*Environmental Modelling & Software*, 2019)

Membership

13/02/2021 – Life Member, European Geosciences Union