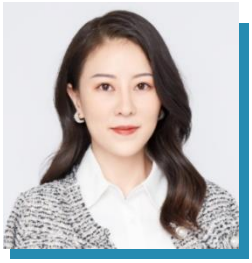

Zhenyu Yu

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Google Scholar | **Research Gate**

EDUCATION BACKGROUND

Yunnan Normal University Kunming, China
Doctor of Science *Sept 2018– Jun 2022*
Major: Geographic Information System

Yunnan Normal University Kunming, China
Master of Engineering *Sept 2015– Jun 2018*
Major: Software Engineering
GPA: 3.6/4.0 (ranking first in the class)

Yunnan Normal University Kunming, China
Bachelor of Engineering *Sept 2011– Jun 2015*
Major: Computer Science and Technology
Bachelor of Economics *Sept 2012– Jun 2015*
Major: Economics

PROFESSIONAL EXPERIENCE

Guangdong Baiyun University Guangzhou, China
Lecturer *Sept 2021 – Jun 2022*

- Taught undergraduate students courses related to software engineering and computer science.

RESEARCH EXPERIENCE

Postdoctoral Fellow in Station of Statistics/Remote Sensing Big Data Intelligent Application Innovation Center, Guangzhou University *Sept 2022 – Present*

- Conduct research on AI for science, multi-source image fusion, and remote sensing parameter inversion;
- Work on the following projects: *Impact of Climate Change on SARS-CoV-2 Epidemic in China* and *AI for Science: Data Estimation of Carbon stocks and Carbon Stock Spatiotemporal Distribution Based on Deep Learning*.

Engineering Research Center of GIS Technology in Western China of Ministry of Education of China *Sept 2015 – Jul 2022*

- Focused on AI for science;
- Participated in a research project aimed at the monitoring of lack surface water temperature and lake water environment governance on the basis of deep learning.

Publications

- **Achievements**: Published 27 papers, including 7 in ***Chinese Academy of Sciences (Division 1),*** 10 in ***JCR (Q1)***, 8 in top journals, 15 in SCI journals, and 6 in Chinese core journals, with 706 citations from Google Scholar
- **Selected Journal Papers**:

J.1 **Yu, Z.**, Wang, J., Wang. P, & Xie, Y. Estimating forest carbon stocks from high-resolution remote sensing imagery by reducing domain shift with style transfer. ***Remote Sensing of Environment***. (SCI, Q1, TOP) (Under review)

J.2 **Yu, Z.**, Wang, J., Gao. S, & Hao, M. Improved implicit diffusion model with knowledge distillation to estimate the spatial distribution density of carbon stock in remote sensing imagery. ***IEEE Transaction on Geoscience and Remote Sensing***. (SCI, Q1, Top) (Under review)

J.3 **Yu, Z.**, Yang, K., Luo, Y., & Shang, C. (2020). Spatial-temporal process simulation and prediction of chlorophyll-a concentration in Dianchi Lake based on wavelet analysis and long-short term memory network. ***Journal of Hydrology***, 582, 124488. https://doi.org/10.1016/j.jhydrol.2019.124488 (SCI, Q1, TOP)

J.4 **Yu, Z.**, Wang, J., Yang, X., & Ma, J. (2022). Superpixel-based Style Transfer Method for Single-temporal Remote Sensing Image Identification in Forest Types. ***Remote Sensing***. (SCI, Q1, TOP)

J.5 **Yu, Z.**, Yang, K., Luo, Y., Wang, P., & Yang, Z. (2021). Research on the lake surface water temperature downscaling based on deep learning. ***IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing***, 1-1. https://doi.org/10.1109/jstars.2021.3079357 (SCI, Q1)

J.6 **Yu, Z.**, Yang, K., Luo, Y., & Yang, Y. (2021). Secchi depth inversion and its temporal and spatial variation analysis - A case study of nine plateau lakes in Yunnan Province of China. ***International Journal of Applied Earth Observation and Geoinformation***, 100, 102344. https://doi.org/10.1016/j.jag.2021.102344 (SCI, Q1, TOP)

J.7 Yang, K. [1], **Yu, Z.** [1], & Luo, Y. (2020). Analysis on driving factors of lake surface water temperature for major lakes in Yunnan-Guizhou Plateau. ***Water Research***, 184, 116018. https://doi.org/10.1016/j.watres.2020.116018 (SCI, Q1, TOP)

J.8 **Yu, Z.**, Yang, K., Luo, Y., Shang, C., & Zhu, Y. (2020). Lake surface water temperature prediction and changing characteristics analysis - A case study of 11 natural lakes in Yunnan-Guizhou Plateau. ***Journal of Cleaner Production***, 276. https://doi.org/10.1016/j.jclepro.2020.122689 (SCI, Q1, TOP)

J.9 Yang, K., **Yu, Z.**, Luo, Y., Yang, Y., Zhao, L., & Zhou, X. (2018). Spatial and temporal variations in the relationship between lake water surface temperatures and water quality - A case study of Dianchi Lake. ***Science of the Total Environment***, 624, 859-871. https://doi.org/10.1016/j.scitotenv.2017.12.119 (SCI, Q1, TOP)

J.10 Yang, K. [1], **Yu, Z.** [1], Luo, Y., Zhou, X., & Shang, C. (2019). Spatial-Temporal Variation of Lake Surface Water Temperature and Its Driving Factors in Yunnan-Guizhou Plateau. ***Water Resources Research***, 55(6), 4688-4703. https://doi.org/10.1029/2019WR025316 (SCI, Q1, TOP)

- **Selected Conference Papers**:

C.1 **Yu, Z.**, & Wang, P. (2024). CaPAN: Class-aware Prototypical Adversarial Networks for Unsupervised Domain Adaptation. ***IEEE International Conference on Multimedia and Expo (ICME) 2024***. (Accepted, Oral Presentation, Top 15%, CCF-B)

C.2 Wang, P., Yang, Y., & **Yu, Z.** (2024). Multi-batch Nuclear-norm Adversarial Network for Unsupervised Domain Adaptation. ***IEEE International Conference on Multimedia and Expo (ICME) 2024***. (Accepted, Oral Presentation, Top 15%, CCF-B)

ACTIVITIES

- **Volunteer** for the United Nations Children's Fund (2023)
- **Silver Medal Winner** for the *LLM Science Exam – Use LLMs to answer difficult science questions* competition hosted by Kaggle (89/2662, Top 4%; 2023)
- **Bronze Medal Winner** for the *HuBMAP – Hacking the Human Vasculature* competition hosted by Kaggle (75/1021, Top 8%; 2023)
- **Reviewers** for such journals as ***Water Research***, ***Science of the Total Environment***, ***Stochastic Environmental Research and Risk Assessment***, ***IEEE Access, ICME, and ICIP***

AWARDS

- Excellent Graduation Thesis in Yunnan Province (2023, Top 0.01%)
- Nomination for Principal Scholarship (2017, 2021, Top 0.1%)
- Merit Student in Yunnan Province (2021, Top 0.1%)
- Outstanding Graduates (2015, 2018, 2022, Top 0.5%)
- National Graduate Scholarship (2017, 2020, 2021, Top 1%)
- Excellent Graduation Thesis in Yunnan Normal University (2015, 2022, Top 1%)
- Yunnan Provincial Government Scholarship (2016, 2019, Top 5%)

- First Prize of Academic Scholarship in Yunnan Normal University (2015, Top 10%)
- National Computer Technology and Software Professional Technical Qualification (Level) Examination-Information System Project Manager (Senior-Level) (2016)
- High School Teacher Qualification Certificate for Information Technology (2015)
- National Computer Technology and Software Professional Technical Qualification (Level) Examination-Software Designer (Intermediate-Level) (2014)

ADDITIONAL INFORMATION

- **English Skills:** Fluently (TOFEL-107)
- **Technical Skills**: Deep learning frameworks (PyTorch, Keras); GIS software (ArcGIS, ENVI); Programming languages (Python, R, Matlab, Java, JavaScript); Cloud platforms (Google Earth Engine)
- **Hobbies**: Playing basketball, volleyball, the cucurbit flute, and video games