人有长发

描述已自动生成**Zhenyu Yu**

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[**Google Scholar**](https://scholar.google.com/citations?user=5XDJJjgAAAAJ&hl=en-EN) | [**Research Gate**](https://www.researchgate.net/profile/Zhenyu-Yu-4)

**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**:

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)
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)
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)
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)
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)
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)
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)
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)
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)
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**:

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)
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