# Yu Li

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#### Education

Wuhan University, Hongyi Honor College

B.Eng. in Microelectronics Science and Technology, GPA:3.87/4.0

University of California, Berkeley

Visiting Student in EECS, concentration in digital/analog IC design

Wuhan, China
Sept 2021 – Jun 2025

Berkeley, CA

Jan 2024 – May 2024

## Research Experiences

Artificial General Intelligence Lab Z, Westlake University Hangzhou, China March 2025 - June. 2025 Topic: Generative AI. Advisor: Prof. Chi Zhang Cyber-Physical Systems Lab Z, UC Irvine Irvine, CA Topic: Multimodal Uncertainty Fusion. Advisor: Prof. Mohammad Al Faruque May 2024 - Oct. 2024 Ultrafast Imaging Lab Z, Wuhan University Wuhan, China Topic: Medical Image Processing. Advisor: Prof. Cheng Lei Sept. 2023 - Jul. 2024 Yang Research Lab Z, UC Davis Davis, CA Topic: Monte Carlo Simulation. Advisor: Prof. Weijian Yang Jun. 2023 - Oct. 2023

#### **Publications**

C=Conference, J=Journal, P=Patent, S=In Submission, †=Equal Contribution

- [J.1] S. Lv, S. Zeng, Y. Li et al. Local Optimum Time-Reassigned Synchrosqueezing Transform for Bearing Fault Diagnosis of Rotating Equipment. IEEE Sensors Journal, 2024.
- [J.2] Y. Li, J. Huang et al. Dual branch SAM-Transformer Fusion Network for Accurate Breast Ultrasound Image Segmentation. Medical Physics, 2025.
- [J.3] Y. Li, D. Chang et al. SfMDiffusion: Self Supervised Monocular Depth Estimation in Endoscopy Based on Diffusion Models. International Journal of Computer Assisted Radiology and Surgery, 2025.
- [C.1] Y. Li†, D. Chang†. DLoRA-TrOCR: Mixed Text Mode Optical Character Recognition Based On Transformer. International Conference on Neural Information Processing (ICONIP), 2024.
- [C.2] Y. Li, Y. Hu, J. Chenet al. ECG Classification with Dual Models: XGBoost Voting and Deep Learning with Attention. In ICACTE, 2023.
- [P.1] Y. Li. Energy-saving calculation method for split air conditioner, energy-saving controller, terminal and medium. CN116085952A.
- [S.1] Y. Li†, J. Wang†, P. Khargonekar, and M. A. A. Faruque. Vision-Language Model-Guided Uncertainty-Aware Cross-Modal Sensor Fusion for Autonomous Vehicles. Submitted to ICCV 2025.
- [S.2] Y. Li et al. MERITS: Merging Effectively with Rank-restricted Initialization and Training-free Steering for content-style LoRAs. Submitted to Neurips 2025.
- [S.3] Y. Li et al. KG-SAM: Knowledge-Guided Clinical CRF Enhanced Segment Anything Model for Medical Image Segmentation. Submitted to AAAI 2026.
- [S.4] J. Huang, X. Li, and Y. Li et al. Windowed Self-Attention Guided Multi-Scale Feature Stream Alignment Network for Ultrasound Image Segmentation. Under Review in Biomedical Signal Processing and Control.
- [S.5] Z. Wang, Y. He, Z. Shen and Y. Li et al. Prada: Black-Box LLM Adaptation with Private Data on Resource-Constrained Devices. Submitted to ACM MobiCom 2025.

### Honors & Scholarships

o Innova International Exchange Scholarship, 6 recipients university-wide.	2024
• Innova Excellence Scholarship, Top 3%, twice.	2023, 2024
• First-Class Scholarship, Top 5%, three times.	2022, 2023, 2024
• Academic Excellence Scholarship, Top 5%, three times.	2022, 2023, 2024
CI 1I	

#### Skills

- Languages: English (TOEFL 110), Chinese (Native), Japanese (Basic)
- **Programming:** Python, C/C++, Matlab, Verilog
- o Tools & Platforms: Ubuntu, FPGA, Docker, Git, Cadence, Vivado
- o Libraries: Pytorch, Tensorflow, OpenCV, Scikit-learn