

Yu Li

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Education

George Washington University <i>Ph.D. in Electrical and Computer Engineering</i>	Washington, D.C. <i>Aug 2025 – Present</i>
Wuhan University, Hongyi Honor College <i>B.Eng. in Microelectronics Science and Technology, GPA:3.87/4.0</i>	Wuhan, China <i>Sept 2021 – Jun 2025</i>
University of California, Berkeley <i>Visiting Student in EECS, concentration in digital/analog IC design</i>	Berkeley, CA <i>Jan 2024 – May 2024</i>

Research Experiences

Mobile Intelligence Lab 📄, George Washington University Topic: LLMs RL. Advisor: Prof. Tian Lan	Washington, D.C. <i>August 2025 – Present</i>
Artificial General Intelligence Lab 📄, Westlake University Topic: Generative AI. Advisor: Prof. Chi Zhang	Hangzhou, China <i>March 2025 – June. 2025</i>
Cyber-Physical Systems Lab 📄, UC Irvine Topic: Multimodal Uncertainty Fusion. Advisor: Prof. Mohammad Al Faruque	Irvine, CA <i>May 2024 – Oct. 2024</i>
Yang Research Lab 📄, UC Davis Topic: Monte Carlo Simulation. Advisor: Prof. Weijian Yang	Davis, CA <i>Jun. 2023 – Oct. 2023</i>

Publications

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

- [J.1] Y. Li, J. Huang *et al.* **Dual branch SAM-Transformer Fusion Network for Accurate Breast Ultrasound Image Segmentation.** *Medical Physics*, 2025.
- [J.2] 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.
- [J.3] 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.
- [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. Chen *et 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 *WACV 2026*.
- [S.2] Y. Li *et al.* **MERITS: Merging Effectively with Rank-restricted Initialization and Training-free Steering for content-style LoRAs.** Submitted to *AAAI 2026*.
- [S.3] 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 SenSys 2025*.

Honors & Scholarships

- **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

Skills

- **Languages:** English (TOEFL 110), Chinese (Native), Japanese (N5)
- **Programming:** Python, C/C++, Matlab, Verilog
- **Tools & Platforms:** Ubuntu, FPGA, Docker, Git, Cadence, Vivado