Yu Li

✉ yul@gwu.edu   📞 (+1) 571-2598668   🔗 Personal Website   in Linkedin   ⌗ Github

Education

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

Research Experiences

Mobile Intelligence Lab ↗, George Washington University	**Washington, D.C.**
Topic: LLMs RL. *Advisor: Prof.Tian Lan*	*August 2025 – Present*
Artificial General Intelligence Lab ↗, Westlake University	**Hangzhou, China**
Topic: Generative AI. *Advisor: Prof.Chi Zhang*	*March 2025 – June. 2025*
Cyber-Physical Systems Lab ↗, UC Irvine	**Irvine, CA**
Topic: Multimodal Uncertainty Fusion. *Advisor: Prof.Mohammad Al Faruque*	*May 2024 – Oct. 2024*
Yang Research Lab ↗, 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] **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