

Pan Guanyuan 潘冠源

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🌐 <https://guanyuanpeterpan.github.io/>



2023.12 - ···· 📌 **Undergraduate Researcher**, Intelligent Information Processing Laboratory, Hangzhou Dianzi University

2025.09 - ···· 📌 **Undergraduate Researcher**, The School of Electronics and Information, Hangzhou Dianzi University

Publications

Papers

- 1 **G. Pan** et al., "Graph Neural Networks Based Analog Circuit Link Prediction," *Engineering Applications of Artificial Intelligence*, 2026.
🔗 DOI: 10.1016/j.engappai.2025.113035
- 2 **G. Pan** et al., "VLM-CAD: VLM-Optimized Collaborative Agent Design Workflow for Analog Circuit Sizing," in *Proceedings of the 34th ACM International Conference on Multimedia (ACMMM 2026)*, Under Review, 2026. arXiv: 2601.07315 [cs.MA].

Copyrights

- 1 Y. Wang, **G. Pan**, H. Liang, A. Yu, and Y. Lin, "Method for Analog Circuit Parameter Optimization Based on Multimodal Perception and Hierarchical Reasoning," Chinese Invention Patent (Pending), 2026.

Project Experiences

- 2025.7 - 2025.11 📌 **[Embodied Intelligence, VLA Training/Deploying, Simulated Robot Data Collecting/Cleaning]** Lead a team to remove the SEM-GD text attention block, retaining the image self-attention block to enhance image features and reduce redundant parameters, thereby increasing the success rate in single-task scenarios. Prune the parameter of $\pi_{0.5}$ from 3.3B to 991M. Employ an NVIDIA RTX4060 Laptop (with 8G of GRAM) to drive two PiPER robotic arms to complete five tasks. Collect and clean over 33,000 simulation data entries based on RoboTwin 2.0 for training and fine-tuning. Serve as the spokesperson of the team.
- 2025.06 - 2025.09 📌 **[Time-Series Forecasting, Lithium-ion Battery Safety]** Collaborate with a team to apply ibm-granite/granite-timeseries-tspulse-r1 with sliding window + feature fusion to achieve early warning of thermal runaway in EV power batteries. Serve as the spokesperson of the team.

Awards

- 2025 📌 **National Second Prize (AI+ Special Competition) & Zhejiang Provincial Silver Prize**, The 19th "Challenge Cup" China Mobile National College Students Extracurricular Academic Science and Technology Works Competition
- 📌 **Honorable Mention (Top 22%)**, The 2025 Interdisciplinary Contest in Modeling
- 2024 📌 **National Third Prize**, Enterprise-Proposed Category of The 15th Students Service Outsourcing Innovation and Entrepreneurship Competition

Education

2023.09 - 2027.06 📌 **Bachelor of Computer Science**, Hangzhou Dianzi University

Skills

- Coding 📌 Python, \LaTeX , Markdown ...
- Misc. 📌 Academic research, leadership, training, \LaTeX typesetting and publishing.
- Languages 📌 Strong reading, writing and speaking competencies for English, Mandarin Chinese and Cantonese Chinese.