Yang Ziyi

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EDUCATION

Nanyang Technological University — Jul 2023 - May 2026 (Expected)
Bachelor of Engineering in Electrical and Electronic Engineering — *Singapore*
- CGPA: 4.54/5

Virginia Polytechnic Institute and State University — Jan 2025 – May 2025
Semester Exchange — *Blacksburg, VA, US*
- Dean's List Spring 2025

PUBLICATIONS

Zheng, Y., Li, S., Wu, F., **Ziyi, Y.**, Hongchao, L., Hu, Z., Xinjun, C., Wang, Z., Chen, J., Luan, S., Xu, J., & Chen, L. (2025). FanChuan: A Multilingual and Graph-Structured Benchmark For Parody Detection and Analysis. *ACL 2025 Findings.* Available at https://arxiv.org/abs/2502.16503

RESEARCH EXPERIENCE

Summer Research Internship — Jun 2025 – Present
Rice University — *Houston, TX, US*

Graph Construction and Graph Neural Network Model Evaluation — Aug 2024 – June 2025
Undergraduate Research Experience on Campus (URECA),Nanyang Technological University — *Singapore*
- Collected 5 datasets from social media platforms capturing trending discussions of various social affairs topics
- Established **data-labeling standards** and annotated 10,000+ data points for high-quality model training
- Constructed graph representations of the collected and labeled datasets for GNN-based analyses
- Gained practical experience with **graph theory** and **neural networks**, applying them to GNN analyses

INTERNSHIP

Intelligent Equipment Intern — May 2024 – Aug 2024
Shanghai Baosight Software Co, Ltd — *Shanghai, China*
- Developed **reinforcement learning** algorithms to map keyboard inputs for gait control of humanoid robots
- Optimized dual-manipulator grasping with **YOLOv5**, achieving 95% detection accuracy and 85% grasp success
- Utilized multiple simulation environments for RL training, including **Isaac Gym, Isaac Sim, and Gazebo**
- Analyzed and tuned parameters to improve training efficiency and achieve faster convergence for RL models
- Created concise technical reports on RL model optimization and dual-manipulator grasping for future development

In-house Robotics Intern — Sept 2022 – Mar 2023
Singapore Polytechnic — *Singapore*
- Fine-tuned **LiDAR sensors** and robot **odometry** for complex semi-outdoor navigation, achieving 85% accuracy
- Achieved a 90% success rate in implementing pick-and-place tasks for a robotic manipulator using **MoveIt!**
- Awarded **Silver Medal** at the Singapore Polytechnic Engineering Show 2023
- Upgraded the Ubuntu system for teaching robots and successfully completed data migration
- Created detailed process documentation, streamlining further development for incoming intern cohorts

TECHNICAL SKILLS

Tools & Frameworks: ROS/ROS2, Anaconda, Jupyter Notebook, MySQL, Git, Docker
Libraries: PyTorch, Transformers, DGL, CUDA, YOLO, NumPy, pandas, Plotly, Matplotlib
Applications and Operating Systems: Gazebo, Isaac Gym, Isaac Sim, VMWare, NI Multisim, Ubuntu

COMMUNITY & LEADERSHIP

Publicity Manager — Aug 2023 – Present
IET NTU on Campus — *Singapore*
- Organized and promoted 10+ engineering and technology events among NTU undergraduates
- Engaged 200+ followers on various social media platforms