

Yang Ziyi

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EDUCATION

Nanyang Technological University <i>Bachelor of Engineering in Electrical and Electronic Engineering</i> <ul style="list-style-type: none">CGPA: 4.54/5	Jul 2023 - May 2026 (Expected) <i>Singapore</i>
Virginia Polytechnic Institute and State University <i>Semester Exchange</i> <ul style="list-style-type: none">Dean's List Spring 2025	Jan 2025 – May 2025 <i>Blacksburg, VA, US</i>

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 <i>Rice University</i>	Jun 2025 – Aug 2025 <i>Houston, TX, US</i>
Undergraduate Research Experience on Campus (URECA) <i>Nanyang Technological University</i> <ul style="list-style-type: none">Collected 5 datasets from social media platforms capturing trending discussions of various social affairs topicsEstablished data-labeling standards and annotated 10,000+ data points for high-quality model trainingConstructed graph representations of the collected and labeled datasets for GNN-based analysesGained practical experience with graph theory and neural networks, applying them to GNN analyses	Aug 2024 – Jun 2025 <i>Singapore</i>

INTERNSHIP

Intelligent Equipment Intern <i>Shanghai Baosight Software Co, Ltd</i> <ul style="list-style-type: none">Developed reinforcement learning algorithms to map keyboard inputs for gait control of humanoid robotsOptimized dual-manipulator grasping with YOLOv5, achieving 95% detection accuracy and 85% grasp successUtilized multiple simulation environments for RL training, including Isaac Gym, Isaac Sim, and GazeboAnalyzed and tuned parameters to improve training efficiency and achieve faster convergence for RL modelsCreated concise technical reports on RL model optimization and dual-manipulator grasping for future development	May 2024 – Aug 2024 <i>Shanghai, China</i>
In-house Robotics Intern <i>Singapore Polytechnic</i> <ul style="list-style-type: none">Fine-tuned LiDAR sensors and robot odometry for complex semi-outdoor navigation, achieving 85% accuracyAchieved 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 2023Upgraded the Ubuntu system for teaching robots and successfully completed data migrationCreated detailed process documentation, streamlining further development for incoming intern cohorts	Sept 2022 – Mar 2023 <i>Singapore</i>

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 <i>IET NTU on Campus</i> <ul style="list-style-type: none">Organized and promoted 10+ engineering and technology events among NTU undergraduatesEngaged 200+ followers on various social media platforms	Aug 2023 – May 2025 <i>Singapore</i>
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