Yueer Zhou

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Education

- **Zhejiang University (ZJU)** *Expected Graduation June 2026*
  Bachelor of Engineering in Computer Science and Technology Hangzhou, China
  - **Overall GPA**: 94.73 / 100, **Ranking**: 1 / 550
  - **TOEFL** MyBest: 109 (Reading: 30, Listening: 28, Speaking: 23, Writing: 28)
- **Carnegie Mellon University** *Jun 2024-Aug 2024*
  Summer Program in Computer Vision and Deep Learning Pittsburgh, USA
  - **Grade**: A. Collaborated to caption image using Transformers and image classification using ViT.

Selected Scholarship & Honors

- **National Scholarship**: Top 0.2% nationwide *2023, 2024*
- **SenseTime Scholarship**: 1 of 30 top AI/CS undergraduates nationwide *2025*
- **Top 10 Undergraduate Students**, Zhejiang University Computer Science Department. *2023, 2025*
- **He Zhijun Scholarship**: Highest honor in college, Top 0.7% *2024*
- **First-Class Academic Scholarships**: Top 3% *2023, 2024*
- **Outstanding Student**: Awarded for receiving multiple individual honors *2023, 2024, 2025*
- **Guo Yilian Education Scholarship**: 2 of 1000 students in college *2023, 2025*
- **New Oriental Scholarship**: 10 of 2000 students *2023*

Publication

[1] **Yueer Zhou**[*], Yichen Wu[*], Ying Wei. *Resolving Conflicts in Lifelong Learning via Aligning Updates in Subspaces.* Preprint, 2025.

[2] L. Xiao, S. Lu, H. Pi, K. Fan, L. Pan, **Y. Zhou**, Z. Feng, X. Zhou, S. Peng, J. Wang. *MotionStreamer: Streaming Motion Generation via Diffusion-based Autoregressive Model in Causal Latent Space.* **ICCV, 2025**.

Research Experience

- **Zanette Lab, CMU | LLM, NLP, RL | Question Generation with Reverse Model** *Sept 2025 – Present*
  Research Intern Advised by Andrea Zanette and Fahim Tajwar Pittsburgh, USA
  - Designed a reverse-model–based question generation framework to create out-of-distribution (OOD) samples for dataset augmentation and downstream self-training or distillation.
  - Implemented answer-aware conditioning and structural prompting to control semantic space and increase reasoning diversity, evaluating the pipeline on the *Countdown* dataset.
  - Demonstrated the ability to generate distributionally novel questions, while identifying a strong dependence on training-data coverage that limited practical generalization.
- **Geometry, Vision and Learning (GVL) Lab, USC | VLA, Embodied AI, Multimodal | Distributed VLA policy fusion and continual learning** *May 2025 – Sept 2025*
  Research Intern Advised by Yue Wang and Jiageng Mao Los Angeles, USA
  - Developed a parameter-fusion framework to merge independently trained edge-deployed VLA models (pi0) into a unified expert model for cross-task generalization without raw data access.
  - Proposed few-shot adaptation strategies using user-provided samples and simulator-based exploration to mitigate catastrophic forgetting.
  - Conducted experiments on *LIBERO* and simulated robotic environments; preliminary results show improved multi-task transferability and policy stability.

- **Digital Media Computing & Design(DCD) Lab, ZJU| LLM, Interpretability, Continual Learning | LoRA Continual Learning for language tasks** *Dec 2024 – May 2025*
  Research Intern Advised by Ying Wei and Yichen Wu Hangzhou, China
  - Proposed and implemented Parameter Stable LoRA, a novel and efficient adaptation method to mitigate catastrophic forgetting in continual learning scenarios for LLM.
  - From parameter shifts perspective, introduced PS-Loss to constrain parameter shifts and enforce sign alignment. Integrated magnitude-based merging strategy for improved retention and generalization.
  - Achieved state-of-the-art performance on multiple continual learning NLP, CV benchmarks with different backbones, outperforming existing leading methods by up to 3%.

- **State Key Lab of CAD&CG, ZJU | 3DV, Motion Generation | Stream 3D Human Motion Generation** *Sep 2024 – Dec 2025*
  Research Intern Advised by Xiaowei Zhou and Sida Peng Hangzhou, China
  - Contributed to the development of MotionStreamer, a diffusion–autoregressive framework for streaming 3D human motion generation from long text inputs with incremental decoding.
  - Reproduced the autoregressive diffusion component and implemented baseline experiments for HumanML3D and BABEL, supporting analysis of model stability and performance.
  - The proposed framework achieved state-of-the-art FID and R-Precision, and can be applied to online multi-round generation, long-term generation and dynamic motion composition.

Academic & Innovation Competitions

- **Gold Award,** China International College Students Innovation Competition *2025*
- **Gold Award,** Zhejiang International College Students Innovation Competition *2025*
- **1st Prize,** Chinese National Mathematics Competitions *2024*
- **3rd Prize,** Zhejiang Provincial Advanced Mathematics (Calculus) Competition *2023*
- **2nd Prize,** Zhejiang Provincial Physics Competition *2023*
- **2nd Prize,** National College Student English Competition *2023*
- **3rd Prize,** ZJU English Writing Competition *2022*

Leadership & Voluneer

- **Converged Media Center, ZJU** *Sep 2022-Sep 2025*
  Director, Technical Department Hangzhou, China
  - Led a team to design and deploy internal duty scheduling and equipment management systems, including web platforms and WeChat mini-programs, with server and database management to ensure backend reliability.
  - Organized training sessions on full-stack web development to enhance team members' technical skills.

- **Cultural Light Summer Social Practice: Siemens Green Love Program** *Jun 2023-Aug 2023*
  Teaching Volunteer Qinghai, China
  - Designed and delivered high school physics lessons for rural students to foster their interest in science.
  - Designed and produced WeChat articles and promotional videos that showcased volunteer work and increased public awareness and engagement in rural education programs.

Technical expertise / Programming / Language

- **Programming Languages:** Python, C/C++
- **Web Technologies & Software Development:** HTML/CSS/JS, Vue3, Falsk
- **Database Systems:** MySQL
- **Hardware Design:** CPU design using Verilog
- **Languages:** Chinese (Native), English (TOEFL 107), Japanese (Basic)