

Yufan Zhou

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Education

Harbin Institute of Technology, BE in Software Engineering Sep. 2022 – Jun. 2026

- GPA: 3.85/4.0; Rank: 1/231
- **Technical Skills:** Python; Java; C/C++; PyTorch; Software Development; Linux

Research Experience

Visiting Student, Westlake University, ENCODE LAB May. 2024 – Aug. 2024

- Conducted primary research in the field of Generative AI, with a focus on image generation, contributed to advancements in personalization, dataset generation for knowledge distillation, dataset expansion, and the blending of concepts. Additionally, I explored the application of AI-driven creativity in 3D generation, video production, and virtual world creation.

Visiting Student, Shanghai Jiao Tong University, EPIC LAB Sep. 2024 – Nov. 2024

- Mainly engaged in research on adversarial attacks and data pruning.

Publications

Masked Temporal Interpolation Diffusion for Procedure Planning in Instructional Videos ICLR 2025 (under review)
Score: 866 Top: 7.3%

Yufan Zhou, Zhaobo Qi, Lingshuai Lin, et.al

- Proposed a latent space temporal interpolation module to generate intermediate latent features, enhancing visual supervision with richer mid-state details for task-specific end-to-end training.
- Introduced a task-adaptive masked proximity loss to improve temporal coherence, prioritize accurate reasoning near start and end states, and filter out irrelevant action predictions for contextually aware sequences.

FreeBlend: Feedback-driven Latent Interpolation Diffusion for Concept Blending ICML 2025 (under preparation)

Yufan Zhou, Haoyu Shen, Huan Wang

- Proposed a novel framework for feedback-driven latent interpolation to enable effective concept blending, improving both semantic coherence and diversity in the generated outputs.
- Addressed the challenges of blending two concepts with distinct semantics and dissimilar shapes, ensuring meaningful and visually cohesive results.

Projects

LLM agent for Virtual Digital Person QA-question

- Developed an LLM-powered agent software that allows users to ask questions about travel experiences in specific cities. The agent provides professional and well-informed answers and presents them through a dramatic animated virtual digital person who teaches and explains the content in an engaging manner. The software offers both Vue.js and Android interfaces, utilizing the Baichuan-2 model along with Retrieval-Augmented Generation (RAG) technology to deliver dynamic context-aware responses.
- Tools Used: Python, PyTorch, Vue, JavaScript

AutoDroid for AccessibilityService AutoDroid

- AutoDroid is an intelligent smartphone automation assistant that uses large language models and accessibility services to automate tasks across any app, focusing on privacy protection, ease of use for disabled users, and optimizing system performance through innovative interface design, knowledge integration, and request efficiency.
- Tools Used: Java, XML, Android

Simple Paging Browser Framework

Paging-Browser

- Focused on developing a simple, pagination-based browser using the Qt framework, including web browsing, bookmark management, and special effects handling.
- Tools Used: Qt, C++ , MySQL

Wholesale and Retail Management System

Wholesale System

- Designed for wholesalers and retailers, featuring a wide range of functionalities including user, department, role, and menu management, along with order, product, and supplier management, all supported by Vue, Spring Boot, Redis, and JWT for efficient multi-terminal authentication and system configuration.
- Tools Used: Java, XML, Spring Boot, Redis, Vue

Award

- National Scholarship
- Finalist, Mathematical Contest in Modeling
- National Third Prize in Computer Design Contest
- National Third Prize in Physics Experiment Competition
- First Prize, the Olympic Mathematics Competition
- First-Class Scholarship
- Huawei Smart Base Scholarship
- Second Prize in Software Innovation
- Bronze Medal, ACM Programming Contest for Freshmen
- Second Prize in the Blue Bridge Cup
- Third Prize in the China College Students Service Outsourcing Innovation and Entrepreneurship Competition
- Third Prize in the Artificial Intelligence Competition
- Third Prize in the Internet+ Competition
- Tencent AI Introductory Course Certificate
- Excellent League Member
- Outstanding Individual in Social Practice