



Zhimu Zhou



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🏠 <https://pikonguwu.github.io/academicpages.github.io/>

🎓 Education

Beijing University of Posts and Telecommunications 2022.09 – Present
Internet of Things Engineering
• **GPA:** 3.82/4 (Rank: 2/182) **Weighted Average:** 91.29/100 **English Proficiency:** CET-6: 627

♥ Honors & Awards

<i>(National No 1)</i>	IC Innovation Contest	MIIT	2024
<i>(Only 1 in Major)</i>	Xiaomi Scholarship	BUPT	2024
<i>(Major Top 10%)</i>	Second-Class Scholarship	BUPT	2023, 2024
<i>(Provincial Top 10%)</i>	First Prize, China Innovation and Entrepreneurship Competition (Beijing)	Ministry of Education	2024
<i>(Provincial Top 15%)</i>	Second Prize, Computer Design Competition	Ministry of Education	2024

📁 Research Experience

VLA Strategy Guidance Based on the Process Reward Model 2024.09 – 2025.02
Project Leader

- Inspired by the verification effectiveness of NP problems, proposed an independent **process reward model** to provide dense guidance for VLA models to avoid ineffective exploration.
- Designed the overall architecture and verified through virtual simulation experiments.

Zero-Shot Vision-and-Language Navigation with Dynamic Memory and LLM Spatial Reasoning 2025.01 – 2025.05
Completed

MSNav: Zero-Shot Vision-and-Language Navigation with Dynamic Memory and feature enhancement
Chenghao Liu*, **Zhimu Zhou***, Jiachen Zhang, Minghao Zhang, Songfang Huang, Huiling Duan.
*Under Review, *Co-first Author, randomly ordered by dice rolling, Preprint: arxiv.org/pdf/2508.16654*

- The context window of traditional intelligent agents can only passively receive all the information and cannot actively filter out the relevant information for tasks to form task memory.
- Proposed MSNav, a modular framework with **dynamic topological memory** and **spatial capabilities**.
- **Personal Contribution:** All experimental implementation and part of the paper writing.

TTF-VLA: Temporal Token Fusion via Pixel-Attention Integration for Vision-Language-Action Models 2025.05 – 2025.07
Completed

TTF-VLA: Temporal Token Fusion via Pixel-Attention Integration for Vision-Language-Action Models
Chenghao Liu, Jiachen Zhang, Chengxuan Li, **Zhimu Zhou**, Songfang Huang, Huiling Duan.
Under Review, Fourth Author, Preprint: arxiv.org/pdf/2508.19257

- Propose a method of **reuse of visual features** can enhance the basic performance of the model **without incurring additional training costs**.
- **Personal Contribution:** Consider the application of the locality principle in the VLA field, validated the feasibility of visual reuse in VLA models through experiments.

Chasing the Silver Bullet: An Inquiry into the Potential and Limits of Vibe-Coding 2025.08 – Present
Project Leader

- “Silver Bullet” effect in software engineering : **the linear expressive growth of natural language cannot match the non-linear growth of project complexity**.
- Independently designed and developed the “**Vibe Entropy**” **evaluation system** to explore the optimal theoretical boundaries of Vibe-Coding.