

# KAIZHI ZHENG

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## 🎓 EDUCATION

**Univeristy of California, Santa Cruz (UCSC)**, Santa Cruz, USA Sep.2021 – Present

*Ph.D. student* in Computer Science and Engineering (CSE); Advisor: Prof. Xin (Eric) Wang

**Univeristy of Michigan, Ann Arbor (UMich)**, Ann Arbor, USA Sep.2019 – May.2021

*M.S.* in Electrical and Computer Engineering (ECE); *GPA*:3.97; Advisor: Prof. Odest Chadwicke Jenkins

**Huazhong University of Science and Technology (HUST)**, Wuhan, China Sep.2015 – Jun.2019

*B.E.* in Electrical Engineering and Automation; *GPA*:3.65

## 📖 PUBLICATIONS & PREPRINTS

1. **Zheng, Kaizhi**, Ruijian Zhang, Jing Gu, Jie Yang, and Xin Eric Wang. "Constructing a 3D Town from a Single Image." arXiv preprint arXiv:2505.15765 (2025).
2. Fan, Yue, Xuehai He, Diji Yang, **Kaizhi Zheng**, Ching-Chen Kuo, Yuting Zheng, Sravana Jyothi Narayana, Xinze Guan, and Xin Eric Wang. "GRIT: Teaching MLLMs to Think with Images." arXiv preprint arXiv:2505.15879 (2025).
3. **Zheng, Kaizhi**, Xiaotong Chen, Xuehai He, Jing Gu, Linjie Li, Zhengyuan Yang, Kevin Lin, Jianfeng Wang, Lijuan Wang, and Xin Eric Wang. "EditRoom: LLM-Parameterized Graph Diffusion for Composable 3D Room Layout Editing". In *The Thirteenth International Conference on Learning Representations, 2025 (ICLR 2025)*.
4. He, Xuehai, Weixi Feng\*, **Kaizhi Zheng\***, Yujie Lu\*, Wanrong Zhu\*, Jiachen Li\*, Yue Fan\*, Jianfeng Wang, Linjie Li, Zhengyuan Yang, Kevin Lin, William Yang Wang, Lijuan Wang, and Xin Eric Wang. "MMWorld: Towards Multi-discipline Multi-faceted World Model Evaluation in Videos". In *The Thirteenth International Conference on Learning Representations, 2025 (ICLR 2025)*.
5. Zhou, Yufan, Ruiyi Zhang, **Kaizhi Zheng**, Nanxuan Zhao, Jiuxiang Gu, Zichao Wang, Xin Eric Wang, and Tong Sun. "Toffee: Efficient Million-Scale Dataset Construction for Subject-Driven Text-to-Image Generation". *arXiv preprint* (2023).
6. **Zheng, Kaizhi\***, Xuehai He\*, and Xin Eric Wang. "MiniGPT-5: Interleaved Vision-and-Language Generation via Generative Vokens." *arXiv preprint arXiv:2310.02239* (2023)
7. Fan, Yue, Jing Gu, **Kaizhi Zheng**, and Xin Eric Wang. "R2H: Building Multimodal Navigation Helpers that Respond to Help." *The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)*
8. Zhou, Kaiwen, **Kaizhi Zheng**, Connor Pryor, Yilin Shen, Hongxia Jin, Lise Getoor, Xin Eric Wang. "ESC: Exploration with Soft Commonsense Constraints for Zero-shot Object Navigation." *Fortieth International Conference on Machine Learning (ICML 2023)*.
9. **Zheng, Kaizhi**, Kaiwen Zhou, Jing Gu, Yue Fan, Jialu Wang, Zonglin Li, Xuehai He, and Xin Eric Wang. "JARVIS: A Neuro-Symbolic Commonsense Reasoning Framework for Conversational Embodied Agents." *arXiv preprint arXiv:2208.13266* (2022).
10. **Zheng, Kaizhi**, Xiaotong Chen, Odest Chadwicke Jenkins, and Xin Eric Wang. "VLMbench: A Compositional Benchmark for Vision-and-Language Manipulation." In *thirty-sixth Conference on Neural Information Processing Systems Datasets and Benchmarks Track (NeurIPS 2022)*.
11. Chen, Xiaotong, **Kaizhi Zheng**, Zhen Zeng, Shreshtha Basu, James Cooney, Jana Pavlasek, and Odest Chadwicke Jenkins. "Manipulation-Oriented Object Perception in Clutter through Affordance Coordinate Frames." In *2022 IEEE-RAS International Conference on Humanoid Robots (Humanoids 2022)*.
12. Sheetz, Emily, Xiaotong Chen, Zhen Zeng, **Kaizhi Zheng**, Qiuyu Shi, and Odest Chadwicke Jenkins. "Composable Causality in Semantic Robot Programming." In *2022 International Conference on Robotics and Automation (ICRA)*, pp. 1380-1386. IEEE, 2022.

## EXPERIENCE

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**UCSC, California, USA**

Sep 2021 – Present

*Research Assistant* Advisor: Prof. Xin Eric Wang

- Focusing on multimodality learning and embodied AI.

**Adobe Research, California, USA**

Jun 2024 – Sep 2024

*Research Intern* Advisor: Dr. Yufan Zhou

- Working on Multimodal Large Language Model for image understanding and generation.

**Microsoft Research, California, USA**

Jan 2024 – May 2024

*Research Intern* Advisor: Mrs. Linjie Li

- Working on Large Language Model (LLM) for 3D indoor scene editing.

**Samsung Research America (SRA), California, USA**

Jun 2023 – Sep 2023

*Research Intern* Advisor: Dr. Yilin Shen

- Working on Large Language Model (LLM) for planning.

**UMich, Michigan, USA**

Jan 2020 – May 2021

*Research Assistant* Advisor: Prof. Odest Chadwicke Jenkins

- Working on robot perception. Proposed Affordance Coordinate Frame (ACF).

**University of Hong Kong, Hong Kong, China**

Jun 2018 – Sep 2018

*Research Assistant Intern* Advisor: Prof. Yik-Chung Wu

- Working on super-resolution reconstruction and speaker separation problems in Chinese speeches.

## ACADEMIC ACTIVITIES

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- Conference Reviewer: NeurIPS'22, MM'24, NeurIPS'24, ICLR'25, ICCV'25, NeurIPS'25
- Program Committee Member: ICCV 2023 Workshop: CLVL: 5th Workshop On Closing The Loop Between Vision And Language
- Reward:
  - First place of Alexa Prize SimBot Public Benchmark Challenge.  
Media: <https://news.ucsc.edu/2022/04/2022-alexa-prize.html>
  - Thrid place of Alexa Prize SimBot Challenge.  
Media: <https://news.ucsc.edu/2023/06/simbot-results.html>