





Zishuo Zheng

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Education

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- The Ohio State University** *PhD in Computer Science* Sep 2024 – May 2029
- Working with Prof. [Sachin Kumar](#)  on RL training and safety of LLMs [1].
 - Web Agents and RAG.
- University of Chinese Academy of Sciences, Institute of Neuroscience** Sep 2020 – Jan 2024
MS in Computational Biology
- Developed a spiking neural network model of the hippocampus that unifies spatial and episodic memory.
- Xi'an Jiaotong University, China** *BS in Computer Science* Sep 2015 – Jun 2019
- Conducted research on network architecture search for convolutional neural networks [4].

Experience

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- UMass Amherst** *Research Intern* Sep 2023 – Jan 2024
- Worked with Prof. [Chuang Gan](#)  on embodied multisensory models [2].
- Microsoft** *Software Development Engineer (SDE)* Jul 2019 – Aug 2020
- Led the development of the Microsoft patent “Risk Assessment of Firewall Rules in a Datacenter.”
- Microsoft Research Asia (MSRA)** *Research Intern* Jul 2018 – Jun 2019
- Designed compressed CNN models for real-time semantic segmentation in Skype and Teams.
- Momenta** *SDE Intern* May 2018 – Jul 2018
- Built UE4-based simulations for autonomous driving.

Ongoing Projects

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- Reasoning for multimodal instruction hierarchy resolution.
- Latent and parallel reasoning in multimodal models.

Publications

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- [1] **Reasoning Up the Instruction Ladder for Controllable Language Models.**
Zishuo Zheng, Vidhisha Balachandran, Chan Young Park, Faeze Brahman, Sachin Kumar.
NeurIPS Workshop, 2025. (Under review at ICLR) [\[Preprint\]](#) 
- [2] **MultiPLY: A Multisensory Object-Centric Embodied Large Language Model in 3D World.**
Yining Hong, **Zishuo Zheng**, Peihao Cheng, Yian Wang, Junyan Li, Chuang Gan.
CVPR, 2024. [\[Paper\]](#) 
- [3] **Interictal Heart Rate Variability as a Biomarker for Comorbid Depressive Disorders Among People With Epilepsy.**
Guliquemu Aimaier, Kun Qian, **Zishuo Zheng**, Weifeng Peng, Zhe Zhang, Jing Ding, Xin Wang.
Brain Sciences, 2022. [\[Paper\]](#) 
- [4] **Multitask Learning With Enhanced Modules.**
Zishuo Zheng, Yadong Wei, Zixu Zhao, Xindi Wu, Zhengcheng Li, Pengju Ren.
IEEE 23rd International Conference on Digital Signal Processing, 2018. [\[Paper\]](#) 

Skills and Awards

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- Python, C++
- Tensorflow, Pytorch
- Web Backend Development, Cybersecurity, and Penetration Testing
- Game design, Unreal Engine 4
- Silver Medal, ACM International Collegiate Programming Contest (ICPC), Shaanxi Provincial Contest, China