

LUXIN ZHANG

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EDUCATION

Carnegie Mellon University

Master of Science in Computer Vision, School of Computer Science

Aug. 2018 - Dec. 2019

Pittsburgh, PA

Peking University

Bachelor of Science in Intelligence Science, School of EECS

Sept. 2014 - July 2018

Beijing, China

RESEARCH KEYWORDS

Multimodal LLMs (VLM), Agentic Reasoning, Post-training (SFT/RLHF), Video Generation, Foundation Models, Large-scale Data Curation, Evaluation & Benchmarking.

EMPLOYMENT

Stealth AI Startup (*founded by Eric Schmidt & Sebastian Thrun*)

Member of Technical Staff

Jun. 2025 - Present

San Francisco, CA

- **Multimodal Reasoning & Personalization:** Architected a pipeline converting raw visual/audio signals into structured text for agentic reasoning, enabling personalized AI behavior based on semantic understanding of user content.
- **Agentic Framework Development:** Developed a high-level agentic system utilizing LLMs to perform complex, multi-step video editing tasks, bridging the gap between model reasoning and tool-based execution.
- **LLM Post-training & Data Flywheel:** Engineered synthetic data pipelines for SFT to align model reasoning and outputs with complex user behaviors and personalized instructions.
- **Evaluation & Benchmarking:** Architected comprehensive evaluation suites and automated benchmarks to quantify the performance of modules and agentic system; established rigorous baselines to drive iterative model improvements.

Meta

Superintelligence Labs, Senior Research Engineer

Feb. 2023 - Jun. 2025

Menlo Park, CA

- Research:
 - **Media Foundation Models:** Core contributor to ([Movie Gen](#), [Emu](#), [Emu-Video](#)); specialized in large-scale data curation and post-training, involving the development of automated filters to understand and rank video quality/aesthetics for training.
 - **Multimodal Llama (VLM):** Developed multimodal image generation capabilities for Llama ([Llama 4](#)), focusing on the intersection of LLM reasoning and visual synthesis.
- Product: Deployment of the foundation models into production ([Meta AI](#), Ads). Led the launch of the first video generation model into production at Meta.

Meta

Reality Lab, Research Engineer

Mar. 2020 - Feb. 2023

Cambridge, MA

- Research: Multitask learning with auxiliary signals for Ads recommendation.
- Product & Infra: AR contents recommendation on Instagram and VR/MR glasses.

Meta

Core Infra, Engineering Intern

May 2019 - Aug. 2019

Cambridge, MA

- Product & Infra: Internal tool of Meta’s deployment services.

Microsoft Research Asia

Research Intern

Sept. 2017 - Feb. 2018

Beijing, China

- Research: Machine learning for multilingual language understanding.
- Product & Infra: Developed LUIS, an open-source learning-based service for personalized language understanding.

University of Texas at Austin

Research Assistant

July 2017 - Sept. 2017

Austin, TX

- Research: Imitation learning of human attention for visuomotor tasks.

PUBLICATIONS

- **The Llama 4 Herd: The Beginning of A New Era of Natively Multimodal AI Innovation**
Meta Technical Report, 2025.
Luxin Zhang as Core Contributor, Multimodal Generation
- **Movie Gen: A Cast of Media Foundation Models**
Meta Technical Report, 2024.
Luxin Zhang as Core Contributor, The Movie Gen team
- **MoCha: Towards Movie-Grade Talking Character Generation**
Conference on Neural Information Processing Systems (NeurIPS spotlight), 2025.
Cong Wei, Bo Sun, Haoyu Ma, Ji Hou, Felix Juefei-Xu, Zecheng He, Xiaoliang Dai, **Luxin Zhang**, Kunpeng Li, Tingbo Hou, Animesh Sinha, Peter Vajda, Wenhui Chen
- **AVID: Any-Length Video Inpainting with Diffusion Model**
Conference on Computer Vision and Pattern Recognition (CVPR), 2024.
Zhixing Zhang, Bichen Wu, Xiaoyan Wang, Yaqiao Luo, **Luxin Zhang**, Yinan Zhao, Peter Vajda, Dimitris Metaxas, Licheng Yu
- **Animated Stickers: Bringing Stickers to Life with Video Diffusion**
arXiv Preprint, 2024.
David Yan, Winnie Zhang, **Luxin Zhang**, Anmol Kalia, Dingkang Wang, Ankit Ramchandani, Miao Liu, Albert Pumarola, Edgar Schoenfeld, Elliot Blanchard, Krishna Narni, Yaqiao Luo, Lawrence Chen, Guan Pang, Ali Thabet, Peter Vajda, Amy Bearman, Licheng Yu
- **Cloth Region Segmentation for Robust Grasp Selection**
International Conference on Intelligent Robots and Systems (IROS), 2020.
Jianing Qian, Thomas Weng, **Luxin Zhang**, Brian Okorn, David Held
- **Atari-HEAD: Atari Human Eye-Tracking and Demonstration Dataset**
Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2020.
Ruohan Zhang, Calen Walshe, Zhuode Liu, Lin Guan, Karl Muller, Jake Whritner, **Luxin Zhang**, Mary Hayhoe, Dana Ballard

- **Modelling Complex Perception-Action Choices**

Journal of Vision, 2018.

Ruohan Zhang, Jake Whritner, Zhuode Liu, **Luxin Zhang**, Karl Muller, Mary Hayhoe, Dana Ballard

- **Learning Attention Model from Human for Visuomotor Tasks**

Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2018.

Luxin Zhang, Ruohan Zhang, Zhuode Liu, Mary Hayhoe, Dana Ballard

- **AGIL: Learning Attention from Human for Visuomotor Tasks**

Proceedings of the European Conference on Computer Vision (ECCV), 2018.

Ruohan Zhang, Zhuode Liu, **Luxin Zhang**, Jake A Whritner, Karl S Muller, Mary M Hayhoe, Dana H Ballard

- **Visual Attention Guided Deep Imitation Learning**

NIPS Cognitively Informed Artificial Intelligence Workshop, 2017.

Ruohan Zhang, Zhuode Liu, **Luxin Zhang**, Karl S Muller Mary M Hayhoe, Dana H Ballard

ACADEMIC SERVICE

Program Committee/Reviewer for the following conferences/workshops.

- NeurIPS 2022 Workshop: Medical Imaging Meets NeurIPS
- ICML 2022 Workshop: Interpretable Machine Learning in Healthcare
- MICCAI 2022 Workshop: Medical Optical Imaging and Virtual Microscopy Image Analysis
- ICCV 2021 Workshop: Computer Vision for Automated Medical Diagnosis
- ICML 2021 Workshop: Interpretable Machine Learning in Healthcare
- ICML 2021 Workshop: Self-Supervised Learning for Reasoning and Perception
- ICML 2021 Workshop: Computational Approaches to Mental Health
- IJCAI 2021 Workshop: Weakly Supervised Representation Learning
- IJCAI 2021 Workshop: Long-Tailed Distribution Learning
- 2021 IEEE/CIC International Conference on Communications in China (ICCC)
- 2021 IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS)

SKILLS

- **Programming:** Python, C/C++, C#, MATLAB, SQL, PHP, JavaScript
- **Platforms & Tools:** PyTorch, Cursor, Claude Code, Hugging Face, LangChain, verl, Wandb, Spark, Linux, Git, L^AT_EX