LUCINE ZHANG

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EDUCATION

Carnegie Mellon University Aug. 2018 - Dec. 2019
Pittsburgh, PA
Master of Science in Computer Vision
The Robotics Institute, School of Computer Science

Peking University Sept. 2014 - July 2018
Beijing, China
Bachelor of Science in Intelligence Science, School of EECS

RESEARCH KEYWORDS

Computer Vision, Generative AI, Video Generation, Diffusion Models, Foundation Models, Large-scale Pre-training & Post-training

EMPLOYMENT

Meta Feb. 2023 - Present
***Generative AI**, Senior Research Engineer* *Menlo Park, CA*

- Research: Media foundation models on image/video generation (Movie Gen, Emu, Emu-Video).
- Product: Deployment of the foundation models (Meta AI, Ads).

Meta Mar. 2020 - Feb. 2023
***Reality Lab**, Software Engineer* *Cambridge, MA*

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

Meta May 2019 - Aug. 2019
***Core Infra**, Software Engineering Intern* *Cambridge, MA*

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

Microsoft Research Asia Sept. 2017 - Feb. 2018
Research Engineer Intern *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 July 2017 - Sept. 2017
Research Assistant *Austin, TX*

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

PUBLICATION

- **Movie Gen: A Cast of Media Foundation Models**
  Meta Technical Report, 2024.
  Luxin Zhang as Core Contributor, The Movie Gen team

- **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, Keras, TensorFlow, Linux, Git, LaTeX