Junlin Xie (Leon Xie)

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Education

University of Electronic Technology and Science of China — Chengdu, Sichuan, CN
M.S. in Computer Science — 2023-09 – present
advised by Jingkuan Song and Lianli Gao

Guilin University of Electronic Technology — Guilin, Guangxi, CN
B.S. in Software Engineering — 2019-09 – 2023-07
CGPA: 3.87/4.00 (Average Score: 90.7 / 100)

Professional Experience

Galaxea — Beijing, CN
Embodied AI Engineer Intern w/ Huazhe Xu — 2025-09 – present
Robotic Foundation Model

Center for Future Media (CFM), UESTC — Chengdu, Sichuan, CN
Graduate Researcher — 2024-08 – present
Robotics, In-context Adaptation

Shanghai Artificial Intelligence Laboratory (Shanghai AI Lab) — Shanghai, CN
Research Intern w/ Dr. Peng Gao & Prof. Hongsheng Li — 2024-04 – 2024-07
Text-to-Image Diffusion via Flow Matching

Center for Future Media (CFM), UESTC — Chengdu, Sichuan, CN
Undergraduate Student Researcher — 2023-02 – 2023-07
Scene Graph Generation

York University — Toronto, ON, CA
Visiting Student (Online) — 2022-03 – 2023-03
Project: Research Methods in Science & Writing a Scientific Paper

Nanyang Technological University — SG
Visiting Student (Online) — 2021-08 – 2021-08
Project: Introduction to Artificial Intelligence

Cloud and Internet of Things, GUET — Guilin, Guangxi, CN
Undergraduate Student — 2020-02 – 2022-12
Low-light Image Enhancement, Image Restoration

Publications

*denotes equal contributions

In-Context Adaptation for Generalizable Imitation Learning — 2025
Junlin Xie, Xu Luo, Hao Wu, Ji Zhang, Youguang Xing, Lianli Gao, Jingkuan Song
Conference on Robot Learning (CoRL), RemembeRL @ Workshop (Spotlight)

Policy Contrastive Decoding for Robotic Foundation Models — 2025
Shihan Wu*, Ji Zhang*, Xu Luo, Junlin Xie, Jingkuan Song, Heng Tao Shen, Lianli Gao
Submitted to ICLR 2026

Shortcut Learning in Generalist Robot Policies: The Role of Dataset Diversity and Fragmentation — 2025
Youguang Xing*, Xu Luo*, Junlin Xie, Lianli Gao, Heng Tao Shen, Jingkuan Song
Conference on Robot Learning (CoRL)

Lumina-T2X: Transforming Text into Any Modality, Resolution, and Duration via Flow-based Large Diffusion Transformers — 2025
Alpha-VLLM Team
International Conference on Learning Representations (ICLR) (Spotlight)

PixWizard: Versatile Image-to-Image Visual Assistant with Open-language Instructions   2025

Weifeng Lin*, Xinyu Wei*, Renrui Zhang*, Le Zhuo, Shitian Zhao, Siyuan Huang, Huan Teng,
<u>Junlin Xie</u>, Yu Qiao, Peng Gao, Hongsheng Li
International Conference on Learning Representations (ICLR)

Multi-Concept Learning for Scene Graph Generation   2023

Xinyu Lyu, Lianli Gao, <u>Junlin Xie</u>, Pengpeng Zeng, Yulu Tian, Jie Shao, Heng Tao Shen
IEEE Transactions on Image Processing, 2025

Engineering Projects

Worked on reproducing HiRobot from Physical Intelligence (PI)   2025
Project leader
Robotics, VLA

Multi-scale Visual Modeling via Residual Quantization for Autoregressive Image Generation   2024
Project leader
Autoregressive Image Generation, Quantization

PaddlePaddle Hackathon   2023
Personal Developer
Implemented 'polar', 'signbit', 'i0', 'i0e', 'polygamma' CPU and GPU kernels in PaddlePaddle

Huawei Cloud Autonomous Vehicle   2020
Project leader
Object detection, ROS, Control

Awards & Scholarships

National Scholarship, Ministry of Education of the PRC   2021
For academic and technology competition standing
Autonomous Region Scholarship, Autonomous Region of Guangxi   2020
For attaining a semester CGPA in rank 2 (2/707).
Excellent Student Scholarship (Second-class), UESTC   2023
To honor candidates matriculating into a master's program.
Excellent Student Scholarship (First-class), GUET   2023
For academic standing
Outstanding Thesis Award, GUET   2023

The 4th National Student Embedded Chip and System Design Competition, GUET   2021
National Second Prize
The 9th "China Software Cup" Software Design Competition, GUET   2020
National Second Prize

Service

International Conference on Learning Representations (ICLR)   2025
As a reviewer

Server Administrator, UESTC   2023 - present
Maintain about 30 servers in the CFM.

Member of 550W Host Shareholders Organization (Personal Tech Group)   2023 - present
Discuss some funny technology.

Skills

Deep Learning frameworks: Transformers, Diffusers, PyTorch, Jax (beginner).
Programming skills: Python, C++, Git, LaTeX, Shell, Basic web design.
Others: Linux (Daily use Arch Linux, Ubuntu), Slurm, ROS1.