

# Yanzuo Lu

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## RESEARCH

My current research focuses on building **Real-Time and Long-Video World Models**, involving three main areas: **(1) real-time generation**, with a focus on achieving inference speeds where the processing time for each video chunk is less than its duration; **(2) long-video generation**, with the key challenge being the mitigation of error accumulation between chunks to maintain long-term consistency; **(3) interactive world model**, with the objective of developing methods for effective control signal injection and responsive, timely feedback.

## EXPERIENCE



### PhD Student, Imperial College London

*Oct 2025 - Present, London, United Kingdom*

In Department of Computing, Supervised by [Jiankang Deng](#);

Research Topic: real-time and long-video world models;

**Fully-Funded Doctoral Scholarship Award (2025-2029)**

### Research Intern, ByteDance Seed

*Dec 2023 - Sep 2025 (1 yr 10 mo), Shenzhen, China*

Mentored by [Yuxi Ren](#) & [Jie Wu](#) and led by [Xuefeng Xiao](#);

Research Topic: accelerating diffusion model to reduce sampling steps via progressive/consistency/rectified/score/adversarial distillation and RLHF for efficient image and video synthesis;

Industry Deployment: Douyin/TikTok (short-form content), Capcut (video editor), Dreamina (image & video generator), Doubao (chatbot)

### Master of Engineering (MEng), Sun Yat-Sen University

*Sep 2022 - Jun 2025, Guangzhou, China*

In School of Computer Science and Engineering;

Supervised by [Andy J Ma](#), [Xiaohua Xie](#) and [Jianhuang Lai](#);

Research Topic: customized diffusion models, domain adaptation and person re-identification;

**China National Scholarship (2024)**

### Bachelor of Engineering (BEng), Sun Yat-Sen University

*Sep 2018 - Jun 2022, Guangzhou, China*

In School of Computer Science and Engineering;

Relevant Coursework: Probability and Statistics, Machine Learning and Data Mining, Principles of Artificial Neural Networks, Optimization Theory, Artificial Intelligence, Computer Vision, Computer Graphics, etc. (Average Score: 91.18 / 100)



## SELECTED PUBLICATIONS

- [ICCV 2025 Highlight] **Y Lu**, et al., Adversarial Distribution Matching for Diffusion Distillation Towards Efficient Image and Video Synthesis. [\[arXiv\]](#)[\[Publication\]](#)
- [CVPR 2024 Highlight] **Y Lu**, et al., Coarse-to-Fine Latent Diffusion for Pose-Guided Person Image Synthesis. [\[arXiv\]](#)[\[Publication\]](#)[\[Code\(200+ stars on GitHub\)\]](#)[\[Talk\]](#)
- [NeurIPS 2024] **Y Ren**, **X Xia**, **Y Lu**, et al., Hyper-SD: Trajectory Segmented Consistency Model for Efficient Image Synthesis. [\[arXiv\]](#)[\[Publication\]](#)[\[Project Page\]](#)[\[HuggingFace\(Over 4M downloads\)\]](#)[\[PR\]](#)

- [ECCV 2024] Y Ren, J Wu, **Y Lu**, et al., ByteEdit: Boost, Comply and Accelerate Generative Image Editing. [[arXiv](#)][[Publication](#)][[Project Page](#)]

## TECHNICAL REPORTS

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- [[arXiv:2509.20427](#)] ByteDance Seed (**Core Contributor**), Seedream 4.0: Toward Next-generation Multi-modal Image Generation. [[arXiv](#)][[Project Page](#)]
- [[arXiv:2509.18824](#)] **Y Lu**, et al., Hyper-Bagel: A Unified Acceleration Framework for Multimodal Understanding and Generation. [[arXiv](#)][[Project Page](#)]
- [[arXiv:2504.11346](#)] ByteDance Seed (**Contributor**), Seedream 3.0 Technical Report. [[arXiv](#)][[Project Page](#)]

## PROFESSIONAL SERVICE

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- Conference Reviewer: CVPR (2026), NeurIPS (2025), ACM MM (2024, 2025)
- Journal Reviewer: IEEE TPAMI, IEEE TIP, IEEE TVCG, IEEE TCSVT