Xiangpeng Yang

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Education

University of Technology Sydney(UTS) *Apr 2023 - present*
Ph.D in Computer Science

Southeast University(SEU) *Sep 2019 - Jun 2022*
M.S in Automation *GPA: 3.86/4.00, Top 3%*

Northeastern University(NEU) *Sep 2015 - Jun 2019*
B.S. in Automation (Honors Class) *GPA: 90.63/100, Top 2%*

Research Interests

Generative AI | Video Generation | Vision and Language | Multi-modal learning

Selected Publications

- **Unified Video Editing with Temporal Reasoner**
  arXiv Project Page Code Hugging Face Video

  Xiangpeng Yang**, Ji Xie, Yiyuan Yang, Min Xu, Qiang Wu* ***CVPR 2026 In Submission

  Highlight: The first work enable generative model reasoning over video content for unified editing.

- **VideoGrain: Modulating Space-Time Attention for Multi-Grained Video Editing**
  arXiv Project Page Code Video

  Xiangpeng Yang**, Linchao Zhu, Hehe Fan, Yi Yang* ***ICLR 2025

  Highlight: The first work propose multi-grained video editing: class, instance and part-level.

- **DGL: Dynamic Global-Local Prompt Tuning for Text-Video Retrieval**

  arXiv Code Video

  Xiangpeng Yang**, Linchao Zhu, Xiaohan Wang, Yi Yang* ***AAAI 2024

  Highlight: Training only 0.83 MB parameters to achieve better performance than full finetuning.

Industry experience

Baidu Research *Aug 2022 - Mar 2023*
Beijing, China

Proposed a dynamic global-local (DGL) prompt tuning for T2V retrieval, surpassing full finetuning/PEFL methods with tuning only 0.83 MB parameters. Accepted at AAAI 2024. [paper] [video]

ByteDance AI Lab *May 2021 - Sep 2021*
Beijing, China

Introduced momentum cross-modal contrastive learning for TikTok's search recommendations.

Selective Awards

- 2023-2027 UTS ARC Discovery Scholarship & International Research Scholarship
- 2020 Baidu AI Studio-Lane Recognition Algorithm Competition, *Top 3/1020*

Academic service

Regular Reviewer for Conferences CVPR, ICLR, ICML, NeurIPS, ICCV, ECCV