Jinbin Bai

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EDUCATION

National University of Singapore 2022 – 2024
M.Comp. in Artificial Intelligence, Dissertation Option *Singapore*
- **Research Topic**: Controllable Content Creation

Nanjing University 2017 – 2021
B.S. in Computer Science, Outstanding Graduate *Nanjing, China*
- **GPA**: 90/100 **Ranking**: 10%

Shanghai Jiao Tong University 2020 – 2020
C9 League University-sponsored Exchange Program (Spring Semester) *Shanghai, China*

PUBLICATION 🎓

1. **Jinbin Bai**, Chunhui Liu, Feiyue Ni, Haofan Wang, Mengying Hu, Xiaofeng Guo, Lele Cheng. *LaT: Latent Translation with Cycle-Consistency for Video-Text Retrieval*, arXiv preprint arXiv:2207.04858. 📄

2. Tian Ye, Sixiang Chen, Yun Liu, Yi Ye, **Jinbin Bai**, Erkang Chen. *Towards Real-time High-Definition Image Snow Removal: Efficient Pyramid Network with Asymmetrical Encoder-decoder Architecture*, Proceedings of the Asian Conference on Computer Vision (**ACCV**), Macau SAR, China, 2022. 📄

3. Yaqi Xie, Chen Yu, Tongyao Zhu, **Jinbin Bai**, Ze Gong, Harold Soh. *Translating Natural Language to Planning Goals with Large-Language Models.* arXiv preprint arXiv:2302.05128. 📄

EXPERIENCE

National University of Singapore
Research Assistant *Singapore*
- [Ongoing] Led the research of **Structure-preserving Video Editing via Text-to-Image Diffusion Model**
- Led the project of **Taming Diffusion Models for Music-Conditioned Conductor Motion Generation**
- Participated the research of **Translating Natural Language to Planning Goals with Large-Language Models**

Intelligent Creation, ByteDance Inc Apr. 2022 – Jul. 2022
Research Intern *Beijing, China*
- Led the research of **Video-Text Pre-training with Prompt Learning and Few-shot Learning**
- Participated in the improvement of **AutoTransition: Learning to Recommend Video Transition Effects**

Multimedia Understanding, Kuaishou Technology Oct. 2021 – Mar. 2022
Research Intern *Beijing, China*
- Led the research of **LaT: Latent Translation with Cycle-Consistency for Video-Text Retrieval**
- Participated in the testing of the **Davinci Project**, a project that retrieves relevant video clips by given texts and splices them into short videos

Computer Vision and Computer Graphics, Nanjing University Oct. 2018 – Mar. 2021
Research Assistant *Nanjing, China*
- Led the research of **Semantic-aware Cartoon Style Transfer**
- Led the research and development of **Classification of Acoustic Scenes Using Convolutional Neural Networks**

PATENT

CN111027675A: A method and system for automatic adjustment of multimedia playback settings

MISCELLANEOUS

Languages: Python, C, C++, LaTeX, Markdown, Matlab
Packages: PyTorch, diffusers