

Sunqi Fan

🌐 Academic Website

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EDUCATION

Tsinghua University

Ph.D.

Beijing, China

Sept 2025 – June 2030(expected)

Department of Computer Science and Technology

- Research Interests: Computer Vision, Visual Agents
- Advisor: Prof. Shi-Min Hu

Tsinghua University

B.Eng.

Beijing, China

Sept 2021 – June 2025

Department of Computer Science and Technology

- Major in Computer Science
- Cumulative GPA: **3.88/4.0**

PUBLICATIONS & PREPRINTS

- Agentic Keyframe Search for Video Question Answering**
Sunqi Fan, Meng-Hao Guo, Shuojin Yang
Preprint [arXiv] [code]
- FlexKBQA: A Flexible LLM-Powered Framework for Few-Shot Knowledge Base Question Answering**
Zhenyu Li*, Sunqi Fan*, Yu Gu, Xiuxing Li, Zhichao Duan, Bowen Dong, Ning Liu, Jianyong Wang
AAAI 2024 Oral Presentation [arXiv] [code]
- FAAC: Facial Animation Generation with Anchor Frame and Conditional Control for Superior Fidelity and Editability**
Linze Li, Sunqi Fan, Hengjun Pu, Zhaodong Bing, Yao Tang, Tianzhu Ye, Tong Yang, Liangyu Chen, Jiajun Liang
Preprint [arXiv] [code]
- Optimization Techniques for Unsupervised Complex Table Reasoning via Self-Training Framework**
Zhenyu Li, Xiuxing Li, Sunqi Fan, Jianyong Wang
IEEE Transactions on Knowledge and Data Engineering [arXiv] [code]

INDUSTRY EXPERIENCES

AIGC Group, Megvii Research

Work closely with Jiajun Liang

Beijing, China

May 2023 – March 2024

Using diffusion models to generate or edit contents

- Design algorithms for high-fidelity facial animation generation based on the text-to-image model. Capturing the rich and delicate expressions of faces is the main focus of this project.

PROJECTS

- A Survey of Video Generation with diffusion Models (in Chinese)** 2023
- Published on the **Communications of Megvii Research** [pdf and demo]
- Slides on interested topics shared in paper reading group** 2022-2023
- Motion Decomposition in Video Generation [Slides]
 - Motion Prediction in Human-Object-Interaction [Slides]
- A Real-Time Ray-Tracing System** 2023
- course project for Computer Graphic, graded 100.[code and doc]
- AssetMasterHub: a corporate asset management website** 2023
- course project for Software Engineering, graded 94.[doc(in Chinese)][code(frontend)][code(backend)]

AWARDS & HORNORS

- Comprehensive Merit Scholarship, Tsinghua University** 2021,2022
- Awarded for top 10% students in college
- Academic Distinction Award, Oxford University** 2022
- Awarded for ranking top 1 in Oxford Study Abroad Programme: Artificial Intelligence and Machine Learning
- Outstanding Member of Student Science Association, Tsinghua University** 2022
- Awarded for my work as the Vice President of the Student Science Association at Xinya College
- Scholarship for Freshmen, Tsinghua University** 2020
- Awarded for ranking top 5 among 300,000 students in the National College Entrance Examination

TECHNICAL SKILLS

- Programming Language: Python (PyTorch, Numpy, Pandas, Matplotlib, scikit-learn), C/C++, R, HTML/CSS/JavaScript, Verilog/System verilog/VHDL
- develop tool: Docker, git, CMake, wandb, tensorboard, AllenNLP, Meshlab, Blender, Qt, Django

LANGUAGE

- Native in Mandarin; Fluent in English
- GRE 332 (Verbal 163, Quantitative 169, Analytical Writing 3.5)
- TOEFL 104 (Reading 29, Listening 28, Speaking 24, Writing 23)