

# Guian Fang

DEEP LEARNING · COMPUTER VISION

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## Education

### SYSU(Sun Yat-sen University)

Shenzhen, China

B.E. IN INTELLIGENT SCIENCE AND TECHNOLOGY

Sept. 2020 - Jul. 2024

- Led as **Student Council and Intelligent Technology Association President**, organized multiple algorithm programming competitions.
- GPA: **3.7/4.0**, achieved outstanding academic performance, ranking **1st** in the last two semesters respectively.
- Supervisor: **Xiaodan Liang** (HCP-I2 Lab SYSU)

## Skills

<b>Frameworks</b>	PyTorch, TensorFlow, Keras, scikit-learn, Mindspore, PaddlePaddle
<b>Programming</b>	Python, C/C++, Matlab, LaTeX, HTML
<b>Languages</b>	Chinese, English
<b>DevTool</b>	Git (version control system), Linux (operating system), Docker (containerization tool), Spack (package management tool), Slurm (cluster management and job scheduling system)

## Experience

### Text to 3D & Multi-Agent LLM

Tau Lab | Cybever

RESEARCH SCIENTIST

Sept. 2023 - Current

†Current position, remote work.

#### Evaluation of text-to-video generation.

NUS | SHOW LAB

PRIMARY AUTHOR

Jun. 2023 - Nov. 2023

- Score-A-Video: Towards A Better Metric for Text-to-Video Generation(**under CVPR review**)

#### Multimodal LLM & Prompt engineering.

Alibaba | DAMO Academy

MAIN PARTICIPANT

Aug. 2023 - Nov. 2023

- ChartThinker: A Contextual Chain-of-Thought Approach to Optimized Chart Summarization(**under COLING review**)

#### Fine-tuning large language models & Controllable image generation.

Shanghai AI Laboratory

MAIN PARTICIPANT

Jul. 2023 - Nov. 2023

- LLaMA-Adapter(5.1k stars), LLaMA2-Accessory(1.8k stars)
- Improving Compositional Text-to-image Generation with Large Vision-Language Models(**under ICLR review**)
- FocusDiff: Foreground Self-Decoupling Customization for Text-to-Image Generation(**under CVPR review**)

#### Enhancing Generative AI Models for 2D or 3D Using RLHF.

HUAWEI | NOAH'S ARK LAB

PRIMARY AUTHOR

Mar. 2023 - Nov. 2023

- RealignDiff: Boosting Text-to-Image Diffusion Model with Coarse-to-fine Semantic Re-alignment(**under CVPR review**)
- HumanRefiner: Benchmarking Abnormal Human Generation and Refining with Coarse-to-fine Pose-Reversible Guidance(**under CVPR review**)

#### National Undergraduate Innovation and Entrepreneurship Training Program.

Sun Yat-sen University

PRINCIPAL INVESTIGATOR

Jun. 2021 - Mar. 2023

- Online Evidence Enhanced and Fine-Grained Fake News Detection in Long Text During the COVID-19 Pandemic.(**under NCAA submission**)
- Alzheimer's disease diagnosis based on multimodal data including images, voiceprints, poses and biomarkers.(**under Lancet submission**)
- IEEE UV 2022 Paper Publication: Wise in Vaccine Allocation

## Honors & Awards

### COMPETITION

2022	<b>2nd Place</b> , Asia and Pacific Mathematical Contest in Modeling	Beijing, China
2022	<b>Silver Medal</b> , China Collegiate Algorithm Design & Programming Challenge Contest	Shanghai, China
2022	<b>2nd Place</b> , The 2022 Social Computing Innovation Competition	Hangzhou, China
2023	<b>1st Place</b> , 4th National College Computer Ability Challenge	Shenzhen, China

### SCHOLARSHIP

2023	<b>1st Place</b> , SYSU Outstanding Student Scholarship (Top <b>5%</b> )	Shenzhen, China
2023	<b>1st Place</b> , National Scholarship (Rank <b>1st</b> )	Shenzhen, China
2023	<b>1st Place</b> , Li Xuerou Foundation Scholarship (Among the top <b>10</b> students in the college)	Shenzhen, China