

SUN WENHAO

✉ E-mail | 🌐 Website | 🐙 GitHub | in LinkedIn

EDUCATION

Postgraduate Research Student (Ph.D. Track)

School of Computer Science and Engineering, Nanyang Technology University (NTU)

Jan 2024 - Present

Singapore

- Multi-modal generation, computer vision, and video processing, among others.

Master of Science

Department of Statistics and Data Science, National University of Singapore (NUS)

Jun 2019 - Jun 2021

Singapore

- CAP: 4.9/5.0
- Relevant modules: Bayesian statistics, time series, spatial statistics, deep learning, etc.

Bachelor of Science

Department of Applied Mathematics, Tianjin University (TJU)

Jun 2016 - Jun 2019

Tianjin, China

- GPA: 3.5/4.0
- Relevant modules: mathematical analysis, functional analysis, abstract algebra, optimization, etc.

EXPERIENCE

Data Scientist

Lazada, Alibaba Group

Jun 2021 - Jan 2024

Singapore

- Spearheaded the creation of *Text/Image Guided Diffusion Models* to facilitate image generation.
- Pioneered the development of a *Multi-Modal Representation* system to enhance *Retrieval* capabilities.
- Led the successful implementation of a price recommendation solution utilizing *Causal Inference Models*.
- Designed and constructed *Data-Centric Machine Learning Pipelines*, leveraging innovative techniques such as dataset condensation and lifelong learning.

PROJECTS

Fashion Virtual Try-On

- Developed a state-of-the-art Virtual Try-On (VTON) system that seamlessly combines a lightweight warping module and a diffusion generation module to create visually pleasing images of a target model wearing reference garments.
- Devised a bootstrapping technique to gain the ability to generate a target image from a clothing try-on photo when only flatly fitting clothes are at hand.

Imbalanced Clustering via EM-Boosted Eigen Selection.

Master's Degree Dissertation

Unsupervised Data Condensation via Tensor Decomposition.

Bachelor's Degree Dissertation

SKILLS

- **Software:** 🐍 Python, R, HiveQL, Linux, Git, \LaTeX , MS Office.
- **Deep learning libraries:** PyTorch, DeepSpeed, ⚡ Lightning, 😊 Transformers, TensorFlow, etc.
- **Language:** Chinese (Native), English (Fluent, GRE 324)