

## Mingzhi Chen

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### EDUCATION

**Southern University of Science and Technology (SUSTech)**  
China

Shenzhen,

*B.Sc. in Computer Science and Technology* | GPA: 3.95/4.0 | Ranked 2/161  
06/2026

09/2022 –

**National University of Singapore (NUS)**

Singapore

*Summer Program in Computer Science* | GPA: 4.0/4.0  
08/2024

06/2024 –

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### RESEARCH EXPERIENCE

**Mutual Information Guided Denoising Attack: Manipulating Semantic Consistency**

07/2023 –

Present

*SUSTech & Research Institute of Tsinghua University in Shenzhen*

*Supervised by Associate Prof. Ming Tang & Prof. Chun Yuan*

- Designed multiple loss functions for adversarial attacks targeting restormer model, and identified a loss function with satisfying results.
- Reviewed performance on state-of-the-art denoising models, implemented 3+ base models for denoising backbone networks, and established evaluation metrics, including entropy, LPIPS, SSIM, and Rouge-L.
- Conducted ablation experiments to optimize and identify the best loss function and fine-tuned hyperparameters for improved performance.
- Developed code for large-scale attacks for 5 models across 5 datasets, ran attack experiments while tracking performance metrics, and optimized machine learning rate, optimizer settings, and components of the loss function.
- Paper submitted to CVPR 2025, currently under review (*Co-first author*).

**SynSFDeblur: Synergistic Spatial-Frequency Network for High-Quality Image Deblurring**

04/2023 –

12/2023

*Research Institute of Tsinghua University in Shenzhen*

*Supervised by Prof. Chun Yuan*

- Ran 10 SOTA networks, including DeblurGan-v2, DBGAN, MTRNN, DMPHN, SPAIR, and MIMO-UNET+, on multiple datasets, such as GoPro, HIDE, RealBlur-R, and RealBlur-J.
- Submitted to Pattern Recognition (4th Author).

**Non-Linear Coded Computation for Distributed CNN Inference: A Learning-Based Approach**

09/2022 –

09/2023

*SUSTech*

*Supervised by Associate Prof. Ming Tang*

- Successfully ran base models such as ResNet and VGG to evaluate accuracy without additional conditions.
  - Implemented a distributed framework and observed an obvious decrease in classification accuracy due to information loss.
  - Designed and implemented an efficient encoder-decoder structure combining MLP and convolutional layers to ensure accuracy, while maintaining a manageable size for the encoder and decoder, thereby optimizing runtime efficiency.
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### INTERNSHIP EXPERIENCE

**Hangzhou Raycloud Technology Co., Ltd.**  
China

Hangzhou,

*Algorithm Intern*

07/2024 – 09/2024

- Designed a chatbot evaluation framework utilizing large models to assess commercial AI assistants for e-commerce.
  - Developed evaluation metrics including emotional tone analysis and response accuracy, significantly improving merchants' chatbot selection processes.
  - Contributed to quarterly revenue surpassing ¥10 million.
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## AWARDS & HONORS

- **National Scholarship** (Top 0.4%) | SUSTech | 2023 – 2024
  - **ICPC Programming Contest** (Silver) | Hangzhou & Jinan Regional Sites | 2022
  - **L'Oréal Brandstorm Competition** (International Excellence Award, Top 1%) | 2023
  - **International Collegiate Supercomputing Competition** (2nd Prize) | 2024
  - **Guangdong Province Mathematical Modeling Competition** (2nd Prize) | 2024
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## LEADERSHIP & ACTIVITIES

**SUSTech Peer Mentor** 09/2023 – Present

- Guided freshmen and peers on research, study strategies, and time management through one-on-one consultations.

**SUSTech Student Representative** 09/2022 – Present

- Represented students to communicate with university to address concerns and implement solutions.

**SUSTech ACM Team** 09/2022 –  
12/2023

- Attended training sessions, took part in ICPC and CCPC programming contests, and won awards.
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## SKILLS

- **Programming Languages:** Python, C++, Java
- **Frameworks & Tools:** TensorFlow, PyTorch, OpenCV, Docker
- **English:** TOEFL 104 (R29/L27/S23/W25)