WU CHENGYUE

Hong Kong

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EDUCATION

The University of Hong Kong　　　　　　　　　　　**Sept.2023 — June.2027 (expected)**
Ph.D. in Computer Science　　　　　　　　　　　　　　　　　　　*Hong Kong , China*

Harbin Institute of Technology, Honors School(Top 5% in HIT)　　**Aug.2019 — June.2023**
*B.E. in Computer Science - **CGPA : 95.6/100 - Rank :1/144(0.7%)***　　　　　*Harbin, China*

Harbin Institute of Technology(Shenzhen)　　　　　　　**Aug.2021 – Aug.2022**
Exchange student in Computer Science　　　　　　　　　　　　　*Shenzhen, China*

HONORS & AWARDS

National Scholarship	2019 — 2020
Hong Kong PhD Fellowship	2023
HKU Presidential PhD Scholarship	2023
Outstanding Graduate of Heilongjiang Province	2023
Samsung Scholarship	2020 — 2021
Tencent Scholarship	2021 — 2022
Best Student Paper Award in ICDIS 2022	2022
Runner-up in NTIRE Challenge CVPR 2022 Image Inpainting	2022
First Prize of School Scholarship	2019 — 2021
First Prize in Chinese National Mathematics Modelling Contest for College Students	Oct. 2021
Honorable Award in American Mathematics Modelling Contest for College Students	Mar. 2021

PUBLICATIONS

- **Wu C**, Gan Y, Ge Y, et al. Llama pro: Progressive llama with block expansion[J]. arXiv preprint arXiv:2401.02415, 2024.

- **Wu C**, Wang T, Ge Y, et al. π-Tuning: Transferring Multimodal Foundation Models with Optimal Multi-task Interpolation[C]//International Conference on Machine Learning. PMLR, 2023: 37713-37727.

- **Wu C**, Ge Y, Guo Q, et al. Plot2Code: A Comprehensive Benchmark for Evaluating Multi-modal Large Language Models in Code Generation from Scientific Plots[J]. arXiv preprint arXiv:2405.07990, 2024.

- Lu Z, **Wu C**, Chen X, et al. Hierarchical diffusion autoencoders and disentangled image manipulation[C]//Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision. 2024: 5374-5383.

- Wang C, Chen X, **Wu C**, et al. Automatic time series forecasting model design based on pruning[J]. Applied Soft Computing, 2024: 111804.

- Wang Z, Duan S, **Wu C**, et al. Generative data augmentation for non-iid problem in decentralized clinical machine learning[C]//2022 4th International Conference on Data Intelligence and Security (ICDIS). IEEE, 2022: 336-343.

- Lu, Z., Huang, D., Bai, L., Qu, J., **Wu, C.**, Liu, X., & Ouyang, W. (2024). Seeing is not always believing: benchmarking human and model perception of AI-generated images. Advances in Neural Information Processing Systems, 36.

- Lu, Z., Wang, Z., Huang, D., **Wu, C.**, Liu, X., Ouyang, W., & Bai, L. (2024). Fit: Flexible vision transformer for diffusion model. arXiv preprint arXiv:2402.12376.

PROJECTS

NTIRE Challenge CVPR 2022 Image Inpainting ↗   **Feb.2022 — Apr.2022**

- Propose to explore the types of mask used in the training process. At the same time, using our mask generation strategy can effectively improve the results of the model.
- Use joint spatial and frequency loss in spatial domain and frequency domain with a regular term to reconstruct the image.
- The proposed GLaMa was ranked first in terms of PSNR, LPIPS and SSIM in the NTIRE 2022 Image Inpainting Challenge Track 1 Unsupervised.

INTERNSHIP

DeepSeek ↗   **May 2024 – Present**
AGI Research Intern   *Beijing, China*

- Research on Multi-Modal Large Language Models' understanding and generation application.
- Research on the data centric training for pretrained multimodal models.

Tencent Holdings Limited. ↗   **Sept.2022 – May 2024**
Research Intern   *Shenzhen, China*

- Research on the Large Language Models and Vision Language Models.
- Research on the data centric training for pretrained multimodal models.

The University of Hong Kong. ↗   **Sept.2022 – Jun.2023**
Research Assistant   *Hong Kong, China*

- Research on the similarity between intra- and inter-modal tasks.
- Research on the parameter-efficient transfer learning of vision-language pretrained models.

Beijing Bytedance Technology Co., Ltd. ↗   **Jan.2022 – Apr.2022**
Backend Developer Intern   *Beijing, China*

- Aimed to design and implement microservices with load balancing and high availability, based on the fact of providing TikTok's international live broadcast with the global distributed IDC architecture.
- Responsible for architecture design and development. Participated in the technology selection and solution design of data index authentication service.
- Develop unified API interfaces to microservices for heterogeneous downstream data sources. Support configurable API, thus preventing manual rewrite and reducing human resources by up to 50%.

TECHNICAL SKILLS

Program Languages: Python, Java, C, C++, SQL, Go
Certification: Certified Software Professional (CSP) Top 5.57%
Language: CET-6: 582, IELTS: 7.5, Mandarin (mother tongue)
Developer Tools: Pycharm, VS Code, Goland, Intellij Idea Ultimate
Technologies/Frameworks: Pytorch, Scikit-Learn, Linux, GitHub, Kitex