

Mr. Shitou ZHANG

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EDUCATION

The Chinese University of Hong Kong (CUHK)

Sep. 2022 – Jun. 2023

Master of Science in Information Engineering

Wuhan University (WHU)

Sep. 2018 – Jun. 2022

Bachelor of Science in Archival Science (Information Management)

WORK EXPERIENCE

Research Intern, DeepLang Technology Co. Ltd.

Sep. 2023 – Present

Supervisor: Dr. Gang Chen

Duties included: Mixture of Experts (MoE) pretraining

Technical Consultant, FiduciaEdge Technologies Co. Ltd., Hong Kong

Jul. 2023 – Aug. 2023

Supervisor: Prof. John K. Zao

Duties included: Federated learning system implementation and deployment

Research Assistant, Key Laboratory of Archival Intelligent Development and Service, NAAC

Jun. 2023 – Jul. 2023

Supervisor: Prof. Ping Wang

Duties included: Domain-oriented LLM development and deployment

Research Assistant, Wuhan University

Mar. 2023 – Jun. 2023

Supervisor: Dr. Zuchao Li

Duties included: LLM pre-training

PROJECT EXPERIENCE

● LingoWhale

Sep. 2023 – Present

Description: Developed [LingoWhale](#), a series of general backbone LLMs with a focus on Chinese language processing; Achieved leading results in LLM benchmarks, including [MMLU](#) and [C-eval](#); Open-sourced LingoWhale-8B, available on [HuggingFace](#).

● BATGPT

Mar. 2023 – Present

Description: Pre-trained [BATGPT](#), a bilingual LLM available in various sizes: 15B, 30B, and 70B; Deployed as the foundation model of [Powthink](#)'s product services in production environment; Released the 15B v1.0 version for public use, available on [HuggingFace](#).

● ArcGPT

Jun. 2023 – Sep. 2023

Description: Led the development of ArcGPT, a domain-specific LLM optimized for archival applications.

● FL on fECP

Jul. 2023 – Aug. 2023

Description: Re-implemented and optimized [ClusterFL](#) using Flower; Deployed on Vecow Vhub (arm-based edge AI computing platform); Integrated FL systems with fECP (Trusted Execution Environment).

PUBLICATIONS

- [1] Shitou Zhang, Zuchao Li, Xingshen Liu, Liming Yang, Ping Wang. “ArcMMLU: A Library and Information Science Benchmark for Large Language Models”. [2311.18658.pdf \(arxiv.org\)](#)

- [2] Shitou Zhang, Siyuan Peng, Ping Wang, Jingrui Hou. “**Archives Meet GPT: A Pilot Study on Enhancing Archival Workflows with Large Language Models**”. Accepted by iConference 2024.
- [3] Shitou Zhang, Jingrui Hou, Siyuan Peng, Zuchao Li, Qibiao Hu, Ping Wang. “**ArcGPT: A Large Language Model Tailored for Real-world Archival Applications**”. [2307.14852.pdf \(arxiv.org\)](#)
- [4] Zuchao Li, Shitou Zhang, Hai Zhao*, Yifei Yang, Dongjie Yang. “**BATGPT: A Bidirectional Autoregressive Talker from Generative Pre-trained Transformer**”. [2307.00360.pdf \(arxiv.org\)](#)
- [5] Shitou Zhang, Ping Wang*, Zuchao Li*, Jingrui Hou. “**Enhancing Ancient Chinese Understanding with Derived Noisy Syntax Trees**”. Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 4: Student Research Workshop). [2023.acl-srw.15.pdf \(aclanthology.org\)](#)

MANUSCRIPTS

- [1] Shitou Zhang, Ping Wang*, Zuchao Li*, Jingrui Hou, Qibiao Hu. “**Confidence-based Syntax Encoding Network for Better Ancient Chinese Understanding**”. *Information Processing & Management (IPM)*, Under review.
- [2] Jiajia Li, Letian Peng, Shitou Zhang, Ping Wang, Zuchao Li, Hai Zhao. “**Semantics-Preserved Distortion for Personal Privacy Protection in Information Management**”. *Expert Systems with Applications (ESWA)*, Under review.

Latest update on 30th Nov. 2023