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Language: English and Chinese

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Academic Qualification

- 2023 *MSc, Information Engineering* *the Chinese University of Hong Kong*
Advisor: Prof. J.K. Zao
- 2022 *B.M, Information Management (Archival Science Option)* *Wuhan University*
Advisor: Prof. P. Wang
Thesis: *Research on Archival Open Access Identification Based on End-to-end Text Classification Methods*
Honor: Outstanding Undergraduate Thesis

Professional Affiliation

- 2020 **Member** **Key Laboratory of Archival Intelligent Development and Service, NAAC, Wuhan**

Professional Practice

- 2023/09 – Present **Research Intern** **DeepLang Technology Co. Ltd., Beijing**
- 2023/07 – 2023/08 **Technical Consultant** **FiduciaEdge Technologies Co. Ltd., Hong Kong**
- 2023/06 – 2023/07 **Research Assistant** **Key Laboratory of Archival Intelligent Development and Service, NAAC, Wuhan**
- 2023/03 – 2023/06 **Research Assistant** **Computer Science Dept. Wuhan University**

Project Experience

- 2023/09 - Present **LingoWhale-MoE**
Role: Key Contributor
Overview: Spearheaded the ongoing pretraining of the LingoWhale-MoE series of LLMs using sparse upcycling. Focused on evolving the model's capabilities with sparse architecture and dynamic routing.
- 2023/03 - Present **BatGPT**
Role: Key Contributor
Overview: Engaged in the implementation and pretraining of BatGPT—a robust series of foundation LLMs. Successfully deployed BatGPT in production environment as the backbone model for Powthink's AI services.
- 2023/06 - 2023/09 **ArcGPT**
Role: Project Leader
Description: Led the development of ArcGPT—a domain-specific LLM tailored for archival applications. The model has been successfully adopted by National Archives Administration of China.
- 2023/07 - 2023/08 **ClusterFL on fECP**
Role: Key Contributor

Overview: Engaged in re-implementation and optimization of ClusterFL utilizing the Flower framework. This project focused on enhancing federated learning systems for more efficient and scalable deployments, particularly in edge computing platforms.

2020/09 - 2022/09

Intelligent Archival Services

Role: Key Contributor

Overview: Engaged in the development of AI-driven assistants designed to improve archival management. The project's solution for archival open-access identification was successfully adopted by Provincial Archives Administration of Hubei.

Publications

1. Shitou Zhang*, Ping Wang, Zuchao Li, Jingrui Hou, and Qibiao Hu. “**Confidence-based Syntax Encoding Network for Better Ancient Chinese Understanding.**” *Accepted by Information Processing & Management, to appear.*
2. Shitou Zhang*, Zuchao Li, Xingshen Liu, Liming Yang, and Ping Wang. “**ArcMMLU: A Library and Information Science Benchmark for Large Language Models.**” *arXiv preprint arXiv:2311.18658 (2023).*
3. Shitou Zhang*, Siyuan Peng, Ping Wang, and Jingrui Hou. “**Archives Meet GPT: A Pilot Study on Enhancing Archival Workflows with Large Language Models.**” *Accepted by International Conference on Information 2024, to appear.*
4. Shitou Zhang*, Jingrui Hou, Siyuan Peng, Zuchao Li, Qibiao Hu, and Ping Wang. “**ArcGPT: A Large Language Model Tailored for Real-world Archival Applications.**” *arXiv preprint arXiv:2307.14852 (2023).*
5. Zuchao Li, Shitou Zhang*, Hai Zhao, Yifei Yang, and Dongjie Yang. “**BatGPT: A Bidirectional Autoregressive Talker from Generative Pre-trained Transformer.**” *arXiv preprint arXiv:2307.00360 (2023).*
6. Shitou Zhang*, Ping Wang, Zuchao Li, and Jingrui Hou. 2023. “**Enhancing Ancient Chinese Understanding with Derived Noisy Syntax Trees.**” *In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 4: Student Research Workshop), pages 83–92, Toronto, Canada. Association for Computational Linguistics.*

Manuscripts

1. Jiajia Li, Letian Peng, Shitou Zhang*, Ping Wang, Zuchao Li, and Hai Zhao. “**Semantics-Preserved Distortion for Personal Privacy Protection in Information Management.**” *Expert Systems with Applications, under review.*