Curriculum Vitae   **Shitou Zhang (张石头)**   *December 2023*

Address:	14F-1406, 1st Building, Tianjian Shishang Kongjian, Xin'an Street, Bao'an District, Shenzhen, Guangdong Province, China	Language: English and Chinese
		Date of Birth: Sep. 20th, 2000
Telephone:	(M) + 86 15110268753, +852 67443439	Homepage: stzhang-patrick.github.io
Email:	stzhang@link.cuhk.edu.hk, patrick.zhang@fiduciaedge.com, shitouzhang@whu.edu.cn, shitou.zhang@deeplang.ai	

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*

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: In charge of pretraining 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: Led the 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 Autoregessive 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.*

2. Shitou Zhang[*], Zuchao Li, Jingrui Hou, and Ping Wang. **"Complementary Attention Memory Mechanism for Better Aspect-based Abstractive Summarization."** *the 62nd Annual Meeting of the Association for Computational Linguistics, under review.*

Awards

2022   Outstanding Undergraduate Thesis (优秀毕业论文奖)   Wuhan University

Latest update on 9th Dec. 2023