

YU BAI

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🎓 EDUCATION

The School of Artificial Intelligence, **Jilin University**, China 08/2023 – 06/2026 (Expected)

M.Sc. in Computer Science and Technology. Advisor: Prof. **Yi Chang**

College of Computer Science and Technology, **Jilin University**, China 08/2019 – 06/2023

B.Sc. in Computer Science and Technology, **Tang Ao-Qing** Honor Program.

📖 PUBLICATIONS

- Tianxing Man, **Yu Bai (Co-first author)**, Ganyu Wang, Jinjie Fang, Haoran Fang, Bin Gu, Yi Chang. *Accelerated Vertical Federated Adversarial Learning through Decoupling Layer-Wise Dependencies*. In **NeurIPS 2025**.
- Jia Zhang, **Yu Bai (Co-first author)**, Hualin Zhang, Tianshuo Chen, Zhaogeng Liu, Zhiqiang Xu, Yi Chang, Bin Gu. *Three Forward, One Backward: Memory-Efficient Full-Rank Fine-Tuning of Large Models via Extra Forward Passes*. In **ICLR 2026**.
- **(First author)**. *TBO: Towards Stealthy Black-box Adversarial Attacks against RAG-Based LLMs*. Under review.
- **(Co-first author)**. *Towards Sparse Spiking LLMs: A Novel ANN-to-SNN Conversion Framework with Temporal Masking*. Under review.
- (Non-first author). *Rethinking Quantized LLM Fine-Tuning: An Alternating Zeroth-Order Algorithm in Continuous Mapping Space*. Under review.
- (Non-first author). *CE-VFAL: A Novel Framework for Communication-Efficient Vertical Federated Adversarial Learning*. Under review.

📁 SELECTED PROJECTS

- **The Research on Spiking-based Generative Pretrained Large Language Models**, Ministry of Education, China. Student Researcher. Fine-tuned ANN-, QANN-, and SNN-based LLMs; performed QANN/SNN models conversion and calibration; designed and implemented energy-efficient algorithms; deployed models on neuromorphic (spiking) hardware; developed demos for milestone reviews and external presentations; and prepared technical documentation.
- **Bad Apple!!** Personal Project. Implemented audio-visual playback systems on console, LED devices, and memory RGB strips using ASCII-art and pixel-based rendering techniques.
- **Corrupt**, Personal Project. Developed a pipeline for anime-style character replacement. Built a distributed data collection workflow based on a proxy pool and fine-tuned diffusion models using LoRA.
- **This is the CN website**, Personal Project. A JavaScript userscript (Tampermonkey) for website customization and localization. Published on Greasy Fork with over **8000** users.

🏆 HONORS AND AWARDS

- *Bronze Medal*, Collegiate Computer Systems & Programming Contest, China.
- *48th*, Hackergame, China.

📌 ADDITIONAL EXPERIENCE

- Usually use Google's coding standards. Can quickly adapt to other standards.
- Delivered a campus technical talk series titled *The Missing Semester of Your CS Education*.
- Former administrator of the Jilin University **Open source Mirrors**.
- Administered project-team servers, including clusters with configurations such as 3×8×A100, 1×4×A40, Huawei Ascend servers, Lynxi neuromorphic hardware, and others.
- Built and maintained an All-in-One homelab: NAS, hot/cold backup, gateway, Gitea, bots, and more.
- GitHub (**150+** Follower): <https://github.com/userElaina> Homepage: <https://workelaina.github.io/>