**Dongqi Cai (蔡栋琪)**

PhD Student (Third Year)

School of Computer Science, Beijing University of Posts and Telecommunications, China

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**Research Interests**

Federated Learning, Efficient NLP System, Speech Privacy.

**Education**

09/2021 – present **PhD in Computer Science and Technology**, BUPT

* Advisor: Prof. Shangguang Wang, Prof. Mengwei Xu
* Remote Advisor: Prof. Felix Xiaozhu Lin

09/2017 – 07/2021 **BS in Communication Engineering**, BUPT

* Advisor: Prof. Lin Fan

**Employment & Experience**

07/2021 – 12/2021 **Research Intern**, Webank

* Mentor: Dr. Lixin Fan

**Honors & Awards**

* National Scholarship, Ministry of Education, 2023
* Excellent Ph.D. Students Foundation, BUPT, 2023
* Outstanding Graduate Student, State Key Laboratory of Networking and Switching Technology, 2022
* First-class academic scholarship, BUPT, 2022
* National-Level, Innovation and Entrepreneurship Projects for College Students, 2019

**Conference Proceedings (\* = equal contributions)**

(full list at <https://scholar.google.com/citations?user=dIimkboAAAAJ&hl=zh-CN>)

1. “Rethinking Mobile AI Ecosystem in the LLM Era”

Jinliang Yuan\*, Chen Yang\*, **Dongqi Cai**\*, Shihe Wang, Xin Yuan, Zeling Zhang, Xiang Li, Dingge Zhang, Hanzi Mei, Xianqing Jia, Shangguang Wang, Mengwei Xu, , in *Proc. ACM Int. Conf. Mobile Computing and Networking (****MobiCom, CCF-A****)*, 2024. Conditionally accept.

[2] “Federated Few-shot Learning for Mobile NLP”

**Dongqi Cai**, Shangguang Wang, Yaozong Wu,Felix Xiaozhu Lin, Mengwei Xu, in *Proc. ACM Int. Conf. Mobile Computing and Networking (****MobiCom, CCF-A****)*, 2023.

[3] “Efficient Federated Learning for Modern NLP”

**Dongqi Cai**, Yaozong Wu,Shangguang Wang, Felix Xiaozhu Lin, Mengwei Xu, in *Proc. ACM Int. Conf. Mobile Computing and Networking (****MobiCom, CCF-A****)*, 2023.

[4] “Towards Practical Few-shot Federated NLP”

**Dongqi Cai**, Yaozong Wu, Haitao Yuan, Shangguang Wang, Felix Xiaozhu Lin, Mengwei Xu, in *Proceedings of the 3rd Workshop on Machine Learning and Systems (****EuroMLSys****), co-located with European Conference on Computer Systems (EuroSys, CCF-A), 2023*.

[5] “Towards ubiquitous learning: A first measurement of on-device training performance”

**Dongqi Cai**, Qipeng Wang, Yuanqiang Liu, Yunxin Liu, Shangguang Wang, Mengwei Xu, in *Proceedings of the 5th International Workshop on Embedded and Mobile Deep Learning* (***EMDL***), *co-located with ACM International Conference on Mobile Systems, Applications, and Services (MobiSys, CCF-B),* 2021.

[6] “FedAdapter: Efficient Federated Learning for Mobile NLP”

**Dongqi Cai**, Shangguang Wang, Yaozong Wu,Mengwei Xu, in *Proceedings of the ACM Turing Award Celebration Conference (TURC)*, 2023.

[7] “Mitigating App Collusion using Machine Learning”

Xuefei Duan, Hua Lu, Jinliang Yuan, Qiyang Zhang, **Dongqi Cai**, in *IEEE 7th International Conference on Big Data Intelligence and Computing (DataCom)*, 2021.

**Journal Publications**

(full list at https://scholar.google.com/citations?user=dIimkboAAAAJ&hl=zh-CN)

[1] “Accelerating Vertical Federated Learning”

**Dongqi Cai**, Tao Fan, Yan Kang, Lixin Fan, Mengwei XU, Shangguang Wang, Qiang Yang, early access in *IEEE Transactions on Big Data (IEEE TBD)*, 2022.

[2] “Implementation of an E-payment security evaluation system based on quantum blind computing”

**Dongqi Cai,** Xi Chen, Yuhong Han, Xin Yi, Jinping Jia, Cong Cao, Ling Fan, in *International Journal of Theoretical Physics (IJTP),* 2020.

**Academic Services**

* **TPC Member**

NCSC-edge'22

* **Reviewer**

IoTJ, SAGC'22, ICASSP'24.

* **External Reviewer**

EIS'21, ICWS'23