**Dongqi Cai (蔡栋琪)**

PhD Student (Third Year)

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**Research Interests**

Edge Computing, Federated Learning, Natural Language Processing Efficiency, 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**

* 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**

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

1. “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. Accepted to appear.

1. “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. Accepted to appear.

1. “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*.

1. “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.

1. “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.

1. “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