Dongqi Cai (蔡栋琪)

PhD Student (Second Year)

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

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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.

[2] "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.

[3] "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*.

[4] "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*.

[5] "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] "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 2022
- **Reviewer**
  IoTJ, SAGC, etc.