

## Honors & Awards

---

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

## Conference Publications (\* = equal contributions)

---

- [1] "Rethinking Mobile AI Ecosystem in the LLM Era" **MobiCom'24** (CCF-A)  
Jinliang Yuan\*, Chen Yang\*, **Dongqi Cai\***, Shihe Wang, Xin Yuan, Zeling Zhang, Xiang Li, Dingge Zhang, Hanzi Mei, Xianqing Jia, Shangguang Wang, Mengwei Xu
- [2] "Federated Few-shot Learning for Mobile NLP" **MobiCom'23** (CCF-A)  
**Dongqi Cai**, Shangguang Wang, Yaozong Wu, Felix Xiaozhu Lin, Mengwei Xu
- [3] "Efficient Federated Learning for Modern NLP" **MobiCom'23** (CCF-A)  
**Dongqi Cai**, Yaozong Wu, Shangguang Wang, Felix Xiaozhu Lin, Mengwei Xu
- [4] "Towards Practical Few-shot Federated NLP" **EuroMLSys'23** co-located with EuroSys'23 (CCF-A)  
**Dongqi Cai**, Yaozong Wu, Haitao Yuan, Shangguang Wang, Felix Xiaozhu Lin, Mengwei Xu
- [5] "GPT4D: Automatic Cross-Version Linux Driver Upgrade Toolkit" **MLICOM'23**  
Borui Yang, Hongyu Li, **Dongqi Cai**
- [6] "FedAdapter: Efficient Federated Learning for Mobile NLP" **TURC'23**  
**Dongqi Cai**, Shangguang Wang, Yaozong Wu, Mengwei Xu
- [7] "Towards ubiquitous learning: A first measurement of on-device training performance" **EMDL'21** co-located with MobiSys'21 (CCF-B)  
**Dongqi Cai**, Qipeng Wang, Yuanqiang Liu, Yunxin Liu, Shangguang Wang, Mengwei Xu.
- [8] "Mitigating App Collusion using Machine Learning" **DataCom'21**  
Xuefei Duan, Hua Lu, Jinliang Yuan, Qiyang Zhang, **Dongqi Cai**

## Journal Publications

---

- [1] "Accelerating Vertical Federated Learning" IEEE TBD 2021  
**Dongqi Cai**, Tao Fan, Yan Kang, Lixin Fan, Mengwei XU, Shangguang Wang, Qiang Yang
- [2] "Implementation of an E-payment security evaluation system based on quantum blind computing" IJTP'20  
**Dongqi Cai**, Xi Chen, Yuhong Han, Xin Yi, Jinping Jia, Cong Cao, Ling Fan.

## Patents

---

- [1]"一种基于前向梯度的联邦学习方法、系统及装置"  
徐梦炜; 武耀宗; **蔡栋琪**; 王尚广, 第二学生发明人, 实质审查的生效
- [2]"面向自然语言模型的联邦小样本学习方法、系统及设备"  
徐梦炜; **蔡栋琪**; 周傲; 马骁; 王尚广, 第一学生发明人, 实质审查的生效
- [1]"一种面向预训练模型的联邦学习方法、装置及系统"  
徐梦炜; **蔡栋琪**; 周傲; 马骁; 王尚广, 第一学生发明人, 实质审查的生效
- [1]"纵向联邦学习建模优化方法、设备、介质及程序产品"  
**蔡栋琪**; 范力欣; 杨强, 第一学生发明人, 实质审查的生效