# Yetong Cao COMPUTER SCIENCE AND TECHNOLOGY - PH.D

Wireless Network and Mobile Computing Lab, Center Building, Beijing Institute of Technology, Beijing, China

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## Personal Information \_\_\_\_\_

**Gender** Female Data of Birth March 28, 1995 **Research Interests** Smart Health, Mobile Computing, Security and Privacy

### Education\_\_\_\_\_

School of Computer Science, Beijing Institute of Technology	Beijing, China
Ph.D student in Computer Science and Technology	Sept. 2019 - Jun. 2023
Advisor: Prof. Fan Li	
School of Computer Science and Engineerig, Nanyang Technological University	Singapore
Visting Ph.D in Computer Science	Nov. 2021 - Nov. 2022
Advisor: Prof. Jun Luo	
School of Computer Science, Beijing Institute of Technology	Beijing, China
Successive Postgraduate and Doctoral Programs in Computer Science and Technology	Sept. 2017 - Jun. 2019
Advisor: Prof. Fan Li	
School of Computer Science and Technology, Shandong University	Shandong, China
B.S. IN COMPUTER SCIENCE AND TECHNOLOGY	Sept. 2013 - Jun. 2017
Publications	
EarACE: Empowering Versatile Acoustic Sensing via Earable Active Noise	
Cancellation Platform	ACM UbiComp 2023
Yetong Cao, Chao Cai, Anbo Yu, Fan Li, Jun Luo	CCF-A
HeartPrint: Passive Heart Sounds Authentication Exploiting In-Ear Microphones	IEEE INFOCOM 2023
Yetong Cao, Chao Cai, Fan Li, Zhe Chen, Jun Luo	CCF-A
I Can Hear You Without a Microphone: Live Speech Eavesdropping From	IEEE INFOCOM 2023
Earphone Motion Sensors	ILLE INI OCOM 2023
Yetong Cao, Fan Li, Huijie Chen, Xiaochen Liu, Chunhui Duan, Yu Wang	CCF-A
Tongue-Jaw Movement Recognition Through Acoustic Sensing on Smartphones	IEEE TMC 2022
Yetong Cao, Fan Li, Huijie Chen, Xianchen Liu, Yu Wang	CCF-A
Guard Your Heart Silently: Continuous Electrocardiogram Waveform Monitoring	ACM UbiComp 2022
with Wrist-Worn Motion Sensor	ACM ODICOMP 2022
Yetong Cao, Fan Li, Huijie Chen, Xianchen Liu, Li Zhang, Yu Wang	CCF-A
Leveraging Wearables for Assisting the Elderly With Dementia in Handwashing	IEEE TMC 2022
Yetong Cao, Fan Li, Huijie Chen, Xianchen Liu, Song Yang, Yu Wang	CCF-A
Towards Nonintrusive and Secure Mobile Two-Factor Authentication on Wearables	IEEE TMC 2021

YETONG CAO, FAN LI, QIAN ZHANG, SONG YANG, YU WANG

CCF-A

Crisp-BP: Continuous Wrist PPG-based Blood Pressure Measurement	ACM MobiCom 2021
Yetong Cao, Fan Li, Huijie Chen, Yu Wang	CCF-A
AWash: Handwashing Assistance for the Elderly With Dementia via Wearables	IEEE INFOCOM 2021
Yetong Cao, Huijie Chen, Fan Li, Song Yang, Yu Wang	CCF-A
CanalScan: Tongue-Jaw Movement Recognition via Ear Canal Deformation	IEEE INFOCOM 2021
Sensing	
Yetong Cao, Huijie Chen, Fan Li, Yu Wang	CCF-A
PPGPass: Nonintrusive and Secure Mobile Two-Factor Authentication via	IEEE INFOCOM 2020
Wearables	
Yetong Cao, Qian Zhang, Fan Li, Song Yang, Yu Wang	CCF-A
Towards Reliable Driver Drowsiness Detection Leveraging Wearables	ACM TOSN 2022
Yetong Cao, Fan Li, Xianchen Liu, Song Yang, Yu Wang	ACM TOSIN 2022
TETONG CAO, TAN LI, ATANCHEN LIO, SONG TANG, TO WANG	
PPGSign: Handwritten Signature Authentication using Wearable PPG Sensor	IFFF WCNC 2021
ABM Mohaimenur Rahman, <b>Yetong Cao</b> , Xinliang Wei, Pu Wang, Fan Li, Yu Wang	
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On the Feasibility of Handwritten Signature Authentication Using PPG Sensor	IEEE CCNC 2021
ABM Mohaimenur Rahman, <b>Yetong Cao</b> , Xinliang Wei, Pu Wang, Fan Li, Yu Wang	
airFinger: Micro Finger Gesture Recognition via NIR Light Sensing for Smart	
Devices	IEEE ICDCS 2020
Qian Zhang, <b>Yetong Cao</b> , Huijie Chen, Fan Li, Song Yang, Yu Wang, Zheng Yang, Yunhao Liu	

#### Honors & Awards\_\_\_\_\_

2020	Student Conference Award, IEEE INFOCOM 2020	IEEE ComSoc
2021	Student Conference Award, IEEE INFOCOM 2021	IEEE ComSoc

### Skills\_\_\_\_\_

ProgrammingPython, C/C++, Matlab, LaTeXExpertiseMathematical Analysis, Topology, Algorithms, Machine LearningLanguagesMandarin Chinese (native), English

## Professional Activities\_\_\_\_\_

#### **Technical Reviewers**

- IEEE GLOBAL COMMUNICATIONS CONFERENCE (GLOBECOM)
- INTERNATIONAL PERFORMANCE COMPUTING AND COMMUNICATIONS CONFERENCE (IPCCC)
- IEEE TRANSACTIONS ON MOBILE COMPUTING (TMC)
- PROCEEDINGS OF THE ACM ON INTERACTIVE, MOBILE, WEARABLE AND UBIQUITOUS TECHNOLOGIES (IMWUT)

#### Sevice

- TPC Member for ACM  $\mathrm{S}^3$  2022 Workshop