

# KE SUN

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## BIOGRAPHY

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I am a 3rd-year Master student from department of Computer Science in Nanjing University, under the supervision of A.P. Wei Wang . My research interests mainly include **Wireless Sensing** and **Mobile Computing**. Now I am focusing on the novel Human Computer Interaction systems based on acoustic signal.

I received my B.Sc. degree in Computer Science from Nanjing University of Aeronautics and Astronautics in 2016. During my undergraduate years, I received the CCF(China Computer Federation) Outstanding Undergraduate Award. I also achieved **Gold Medal** in the 40th ACM International Collegiate Programming Contest (ACM/ICPC) Asia Regional Contest.

## EDUCATION

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### Nanjing University

*Step 2016 - Present*

M.S. in Computer Science & Engineering

Supervisor: A.P. Wei Wang

### Nanjing University of Aeronautics and Astronautics

*Step 2012 - June 2016*

B.S. in Computer Science & Engineering

Undergraduate President Award, Undergraduate Achievement Award

CCF(China Computer Federation) Outstanding Undergraduate Award

## PUBLICATION

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1. VSkin: Sensing Touch Gestures on Surfaces of Mobile Devices Using Acoustic Signals  
**Ke Sun**, Ting Zhao, Wei Wang, Lei Xie  
**ACM MobiCom**, Oct 2018. (To appear)
2. Unlock With Your Heart: Heartbeat-based Authentication on Commercial Mobile Phones  
Lei Wang, Kang Huang, **Ke Sun**, Wei Wang, Chen Tian, Lei Xie, Qing Gu  
**ACM IMWUT 2018 (UbiComp 2018)**, Oct 2018.
3. Charging Task Scheduling for Directional Wireless Charger Networks  
Haipeng Dai, **Ke Sun**, Alex X. Liu, Lijun Zhang, Jiaqi Zheng and Guihai Chen  
**ACM ICPP**, Aug 2018.
4. Depth Aware Finger Tapping on Virtual Displays  
**Ke Sun**, Wei Wang, Alex X. Liu, Haipeng Dai  
**ACM MobiSys**, Jun 2018.
5. WiTrace: Centimeter-Level Passive Gesture Tracking Using WiFi Signals  
Lei Wang, **Ke Sun**, Haipeng Dai, Alex X. Liu, Xiaoyu Wang  
**IEEE SECON**, Jun 2018.
6. Device-free Gesture Tracking Using Acoustic Signals  
Wei Wang, Alex X. Liu, **Ke Sun**  
**ACM MobiCom**, Oct 2016.

## SELETED HONORS

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- 2018 MobiSys Student Travel Grant
- 2016 Nanjing University of Aeronautics and Astronautics **Undergraduate Achievement Award**  
22 NUAA undergraduates annually
- 2015 CCF(China Computer Federation) **Outstanding Undergraduate Award**  
100 undergraduates all over China annually
- 2015 Nanjing University of Aeronautics and Astronautics **Undergraduate President Award**  
10 NUAA undergraduates annually
- 2015 China National Aero-Technology Import & Export Scholarship
- 2014 China National Scholarship
- 2013 Fei Xiaotong Scholarship

## SELETED AWARDS

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- 2017 China National College Competition on Internet of Things, **Finals First Prize**  
Project: Ultrasound based sensing applications for mobile devices, October 2017.
- 2015 ACM-ICPC Asia Regional Contest(Chang Chun Site), **Gold Medal**  
School Rank 9 and Team Rank 13 from 217 teams, October 2015.
- 2014 ACM-ICPC China Shanghai Metropolitan Programming Contest, **Silver Medal**, May 2014.
- 2013 ACM-ICPC China TongHua Invitational Programming Contest, **Silver Medal** School Rank 14 and Team Rank 18 from 137 teams, May 2013.
- The Fifth China National Professional Software Engineering "Lan Qiao Cup" Design Contest(Java Goup), **Finals Second Prize**, June 2014.
- The Fourth China National Professional Software Engineering "Lan Qiao Cup" Design Contest(C/C++ Goup), Finals Second Prize, July 2013.

## EXPERIENCE

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### Internship

- Huawei Hisilicon Audio Lab

### Reviewer

- 2017 ICCCS

### Student Coach

- 2016 NUAA ACM/ICPC Team
- 2012 National Olympiad in Informatics in Jiangsu Provinces Summer Camp