

# Shichao YUE

## PERSONAL INFORMATION

---

UNIVERSITY: Massachusetts Institute of Technology  
MAJOR: Computer Science  
EMAIL: [scyue@mit.edu](mailto:scyue@mit.edu)  
ADDRESS: 32-G934, 32 Vassar Street, Cambridge, MA 02139.  
HOMEPAGE: <http://people.csail.mit.edu/scyue/>

## EDUCATION

---

2016 - Now Ph.D. Candidate in *Computer Science*  
Massachusetts Institute of Technology, U.S.A

2012 - 2016 B.E. in *Computer Science and Technology*  
Tsinghua University, China  
GPA: **93.3/100** (Rank: **1<sup>st</sup>/116**)

## PROFESSIONAL EXPERIENCE

---

MAY 2020 - AUG 2020	<b>Machine Learning Intern @ Facebook Inc.</b> Team: <b>GamingML</b> Proposed and implemented an automatic game highlight detection system.
MAY 2019 - AUG 2019	<b>Research Intern @ Emerald Innovations Inc.</b> Developed a distributed breathing extraction system.
NOV 2015 - JUN 2016	<b>Research Intern @ Tsinghua University</b> Advisor: <b>Prof. Yuanchun Shi</b> Assisting <i>English-as-a-Second-Language</i> writers by giving statistical suggestions
JUL 2015 - SEP 2015	<b>Research Intern @ UC Berkeley</b> Advisor: <b>Prof. Brian A. Barsky</b> Improving the efficiency of Eyeglasses-free Display.
APR 2015 - JUL 2015	<b>Research Intern @ Chinese University of Hong Kong</b> Advisor: <b>Prof. Minghua Chen</b> Designed a simple yet effective online load-balancing algorithm

## PUBLICATIONS

---

- BodyCompass: Monitoring Sleep Posture with Wireless Signals.  
**Shichao Yue**, Yuzhe Yang, Hao Wang, Hariharan Rahul and Dina Katabi.  
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (UbiComp) 2020.
- Liquid Testing with Your Smartphone.  
**Shichao Yue** and Dina Katabi.  
ACM International Conference on Mobile Systems, Applications, and Services (MobiSys) 2019.  
**SIGMOBILE Research Highlight**  
**CACM Research Highlight**
- Extracting Multi-Person Respiration from Entangled RF Signals.  
**Shichao Yue**, Hao He, Hao Wang, Hariharan Rahul and Dina Katabi.  
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (UbiComp) 2018.

4. **Zero-Effort In-Home Sleep and Insomnia Monitoring using Radio Signals**  
Chen-Yu Hsu, Aayush Ahuja, **Shichao Yue**, Rumens Hristov, Zachary Kabelac, and Dina Katabi.  
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (Ubicomp) 2017.
5. **Learning sleep stages from radio signals: A conditional adversarial architecture.**  
Mingmin Zhao, **Shichao Yue**, Dina Katabi, Tommi S. Jaakkola, and Matt T. Bianchi.  
International Conference on Machine Learning (ICML) 2017.
6. **CEPT: Collaborative Editing Tool for Non-Native Authors.**  
Yeshuang Zhu, **Shichao Yue**, Chun Yu, and Yuanchun Shi.  
ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) 2017.
7. **Assessing Pain and Sleep Patterns in Endometriosis: A Pilot Study Using Passive Radio Sensors**  
Loring, Z Kabelac, U Munir, **S Yue**, HY Ephraim, SN Morris, KB Isaacson, LG Griffith, D Katabi  
Journal of Minimally Invasive Gynecology 2019.
8. **Novel Technology to Capture Objective Data from Patients' Recovery from Laparoscopic Endometriosis Surgery**  
M Loring, Z Kabelac, U Munir, **S Yue**, H Y Ephraim, H Rahul, K B Isaacson, L G Griffith, D Katabi  
Journal of Minimally Invasive Gynecology 2019.

## AWARDS

---

AUG 2020	<b>CACM Research Highlight</b> <i>Liquid Testing with Your Smartphone</i> receives CACM Research Highlight of 2020
OCT 2019	<b>SIGMOBILE Research Highlight</b> <i>Liquid Testing with Your Smartphone</i> receives SIGMOBILE Research Highlight of 2019
JUN 2016	<b>Tsinghua Outstanding Graduate Award</b>
JUN 2016	<b>Beijing Outstanding Graduate Award</b>
JUN 2015	<b>Google Excellence Scholarship</b>
DEC 2014	<b>Zhong Shimo Scholarship</b> The highest award for undergraduates in CS Dept.
MAY 2014	<b>Tsinghua Sparks Program Membership</b> Among top 50/3000 students for achievements in scientific and technological innovations
DEC 2013	<b>December 9<sup>th</sup> Scholarship</b> The second highest award for undergraduates in Tsinghua

## ENGLISH SKILLS

---

TOEFL 106/120 (Reading: 30; Listening: 29; Speaking: 22; Writing: 25)  
GRE Verbal: 158/170, Quantitative 170/170, Analytical Writing 3.5/6.0

## PROGRAMMING

---

Proficient: Python, C/C++, Java, Objective-C, Swift, JavaScript  
Basic Knowledge: SQL, HTML,  $\LaTeX$ , Matlab