Shichao YUE

PERSONAL INFORMATION

TITLE:	Technology Lead for Research and Development
COMPANY:	Emerald Innovations, Inc.
EMAIL:	email@scyue.me
ADDRESS:	One Broadway St, 14th Floor, Cambridge, MA 02142.
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EDUCATION

2018 - 2021   Ph.D. in *Computer Science*
Advisor: **Prof. Dina Katabi**
Massachusetts Institute of Technology, U.S.A

2016 - 2018   S.M. in *Computer Science*
Advisor: **Prof. Dina Katabi**
Massachusetts Institute of Technology, U.S.A

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

PROFESSIONAL EXPERIENCE

JUN 2021 - CURRENT	**Tech Lead of D&R** @ Emerald Innovations, Inc. Design, develop, optimize, implement, test, and deploy software and hardware systems, and analyze data.
MAY 2020 - AUG 2020	**Machine Learning Intern** @ Facebook Inc. Team: **GamingML** Proposed and implemented an automatic game highlight detection system.
MAY 2019 - AUG 2019	**Research Intern** @ Emerald Innovations Inc. Developed a distributed breathing extraction system.
NOV 2015 - JUN 2016	**Research Intern** @ Tsinghua University Advisor: **Prof. Yuanchun Shi** Assisting *English-as-a-Second-Language* writers by giving statistical suggestions
JUL 2015 - SEP 2015	**Research Intern** @ UC Berkeley Advisor: **Prof. Brian A. Barsky** Improving the efficiency of Eyeglasses-free Display.
APR 2015 - JUL 2015	**Research Intern** @ Chinese University of Hong Kong Advisor: **Prof. Minghua Chen** Designed a simple yet effective online load-balancing algorithm

Publications

1. CornerRadar: RF-Based Indoor Localization Around Corners.
   Shichao Yue*, Hao He*, Peng Cao*, Kaiwen Zha, Masayuki Koizumi, Dina Katabi.
   Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (Ubicomp) 2022.

2. 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.

3. 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

4. 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.

5. Zero-Effort In-Home Sleep and Insomnia Monitoring using Radio Signals
   Chen-Yu Hsu, Aayush Ahuja, **Shichao Yue**, Rumen Hristov, Zachary Kabelac, and Dina Katabi.
   Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (Ubicomp) 2017.

6. 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.

7. 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.

8. 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.

9. 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	**CACM Research Highlight**
	Liquid Testing with Your Smartphone receives CACM Research Highlight of 2020
Oct 2019	**SIGMOBILE Research Highlight**
	Liquid Testing with Your Smartphone receives SIGMOBILE Research Highlight of 2019
Jun 2016	**Tsinghua Outstanding Graduate Award**
Jun 2016	**Beijing Outstanding Graduate Award**
Jun 2015	**Google Excellence Scholarship**
Dec 2014	**Zhong Shimo Scholarship**
	The highest award for undergraduates in CS Dept.
May 2014	**Tsinghua Sparks Program Membership**
	Among top 50/3000 students for achievements in scientific and technological innovations
Dec 2013	**December 9th Scholarship**
	The second highest award for undergraduates in Tsinghua