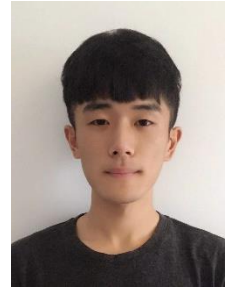


PAN HAO 潘昊

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Biography

My name is Pan Hao (潘昊). I obtained my Ph.D. in Computer Science at the Shanghai Jiao Tong University in 2022, and my advisors are *Prof. Guangtao Xue* and *Assoc. Prof. Yi-Chao Chen*. During the doctoral studies, my main research interests focus on networked systems and spanned the areas of mobile computing, human-computer interaction and computer vision. To learn more about my research projects, please visit my homepage: <https://haopan.netlify.app/>.



Education

- | | |
|---|----------------------|
| Shanghai Jiao Tong University, Shanghai, China | 2016.9-2022.3 |
| Ph.D. in Computer Science (School of Electronic Information and Electrical Engineering) | |
| University of Electronic Science and Technology, Chengdu, China | 2012.9-2016.7 |
| B.S. in Information and Communication Engineering (Yingcai Honor College) | |

Selected Publication

Google Scholar: <https://scholar.google.com/citations?user=nuxKtp4AAAAJ&hl=en&oi=ao>

Conference Papers:

- [1] **Hao Pan**, Lanqing Yang, Honglu Li, Yi-Chao Chen, Guangtao Xue. MagThief: Stealing Private App Usage Data on Mobile Devices via Built-in Magnetometer. Accepted by **IEEE SECON 2021**.
- [2] **Hao Pan**, Yi-Chao Chen, Qi Ye, Guangtao Xue. MagicInput: Training-free Multi-lingual Finger Input System using Data Augmentation based on MNISTs. Accepted by **ACM IPSN 2021**.
- [3] Yijie Li, Yi-Chao Chen, Xiaoyu Ji, **Hao Pan**, Lanqing Yang, Guangtao Xue, Jiadi Yu. "SCREENID: Enhancing QRCode Security by Fingerprinting Screens." **IEEE INFOCOM 2021**.
- [4] Lanqing Yang, Yi-Chao Chen, **Hao Pan**, Dian Ding, Guangtao Xue, Linghe Kong, Jiadi Yu, Minglu Li. "MagPrint: Deep Learning Based User Fingerprinting Using Electromagnetic Signals." **IEEE INFOCOM 2020**.
- [5] **Hao Pan**, Yi-Chao Chen, Lanqing Yang, Chuangwen You, Guangtao Xue, Xiaoyu Ji. "mQRCode: Secure QR Code Using Nonlinearity of Spatial Frequency in Light." **ACM MobiCom 2019**.
- [6] Yushi Cheng, Xiaoyu Ji, Wenyan Xu, **Hao Pan**, Zhuangdi Zhu, Chuang-Wen You, Yi-Chao Chen, Lili Qiu. "MagAttack: Guessing Application Launching and Operation via Smartphone." **ACM AsiaCCS 2019**.
- [7] **Hao Pan**, Yi-Chao Chen, Guangtao Xue, Xiaoyu Ji. "Magnecomm: Magnetometer-based near-field communication." **ACM MobiCom 2017**.

Journal Papers:

- [1] Guangtao Xue, **Hao Pan**, Yi-Chao Chen, Xiaoyu Ji, Jiadi Yu. MagneComm+: Near-Field Electromagnetic Induction Communication with Magnetometer. **IEEE TMC 2021**.
- [2] Xiaoyu Ji, Yushi Cheng, Wenyan Xu, Yuehan Chi, **Hao Pan**, Zhuangdi Zhu, Chuang-Wen You, Yi-Chao Chen, Lili Qiu. No Seeing is Also Believing: Electromagnetic-emission-based Application Guessing Attacks via Smartphones. **IEEE TMC 2021**.

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Experience

Internship: Future Network Theory Lab, Huawei, Hong Kong 2015.8-2016.4

Lab Leader: Gong Zhang | Advisor: John C.S. Lui (ACM/IEEE Fellow), Yi Wang

Research Topic: Named data networking in vehicular ad hoc networks

StarBrige Program: Shanghai Research Lab, Microsoft Research Asia, Shanghai 2022.3-Now

Lab Leader and Advisor: Lili Qiu (ACM/IEEE Fellow)

Research Topic: Low Earth orbit satellite communication

Teaching

Computer Networks (XO33517), Shanghai Jiao Tong University, 2019 Fall

Teaching Assistant | Lecturer: Guangtao Xue

Mobile Sensing and Computing (CS28014), Shanghai Jiao Tong University, 2018 Fall

Teaching Assistant | Lecturer: Guangtao Xue

Honor and Award

2019	<i>The Fifth Youth Innovation and Creativity Competition (STATE GRID)</i>	Silver Award
2017	<i>The Third Next Generation Internet Technology Innovation Competition (MOE)</i>	National 1st Prize
2016	<i>The Second Next Generation Internet Technology Innovation Competition (MOE)</i>	National 1st Prize
2015	<i>American Mathematical Modeling Competition (COMAP)</i>	Meritorious Winner
2014	<i>The 20th National Student Electronic Design Competition (MOE&MIIT)</i>	Provincial 2nd Prize
2013-2015	<i>UESTC People Scholarship</i>	Second Prize

Skills

Programming: Python, C/C++

Language: English CET6 (510)