YIMIN CHEN

CONTACT INFORMATION

Virginia Tech, Northern Virginia Center
7054 Haycock Road
Falls Church, VA 22043

Phone: 202-253-9480
Email: yiminchen@vt.edu
`https://sites.google.com/site/yiminchen434/`

EDUCATION

12/2018   *Arizona State University*   Tempe, AZ
- Ph.D. in Electrical Engineering
- Dissertation: *Security and Privacy in Mobile Devices: Novel Attacks and Countermeasures*
- Adviser: Professor Yanchao Zhang

4/2013   *Chinese University of Hong Kong*   Hong Kong
- M.Phil. in Electrical Engineering

7/2010   *Peking University*   Beijing, China
- B.S. in Electronics and Information Science and Technology

PROFESSIONAL EXPERIENCE

12/2019 – Present   *Virginia Tech*   Falls Church, VA
Postdoctoral Associate, Department of Computer Science

12/2018 – 11/2019   *Tencent*   Shenzhen, China
Researcher, AI Security Lab

8/2013 – 12/2018   *Arizona State University*   Tempe, AZ
Research Assistant, School of Electrical, Computer, and Energy Engineering

8/2010 – 4/2013   *Chinese University of Hong Kong*   Hong Kong
Research Assistant, Department of Electrical Engineering

RESEARCH INTERESTS

Security and privacy issues in deep/meta learning, distributed systems, wireless networks, mobile crowdsourcing, cloud and edge computing, social networks, and data mining.

PUBLICATIONS

1. Ning Wang, **Yimin Chen**, Yang Hu, Wenjing Lou, Y. Thomas Hou, "MANDA: On Adversarial Example Detection for Network Intrusion Detection System" , *IEEE Conference on Computer Communications* (INFOCOM), Virtual Conference, May 2021 (9 pages, acceptance ratio: 19.9%).

2. Tao Li, Dianqi Han, **Yimin Chen**, Rui Zhang, and Yanchao Zhang, "IndoorWaze: a crowdsourcing-based context-aware indoor navigation system, *IEEE Transactions on Wireless Communication*, vol. 19, no. 8, pp. 5461-5472, August 2020.

3. Xin Yao, **Yimin Chen**, Rui Zhang, Yanchao Zhang, and Yaping Lin, "Beware of what you share: inferring user locations in Venmo," *IEEE Internet of Things Journal*, vol. 5, no. 6, pp. 5109-5118, December 2018.

4. Dianqi Han, **Yimin Chen**, Tao Li, Rui Zhang, Yanchao Zhang, and Terri Hedgpeth, "Proximity-Proof: secure and usable two-factor mobile authentication," *ACM Annual Conference on Mobile Computing and Networking* (MobiCom), New Delhi, India, October 2018 (12 pages, acceptance ratio: 292/1395=20.9%).

5. **Yimin Chen**, Tao Li, Rui Zhang, Yanchao Zhang, and Terri Hedgpeth, "EyeTell: video-assisted touchscreen keystroke inference from eye movements," *IEEE Symposium on Security and Privacy* (S&P), San Francisco, CA, May 2018 (17 pages, acceptance ratio: 63/549=11.5%).

6. Tao Li, **Yimin Chen**, Rui Zhang, Yanchao Zhang, and Terri Hedgpeth, "Secure crowdsourced indoor positioning systems," *IEEE Conference on Computer Communications* (INFOCOM), Honolulu, HI, April 2018 (9 pages, acceptance ratio: 309/1606=19.2%).

7. **Yimin Chen**, Jingchao Sun, Xiaocong Jin, Tao Li, Rui Zhang, and Yanchao Zhang, "Your face your heart: Secure mobile face authentication with photoplethysmograms," *IEEE Conference on Computer Communications* (INFOCOM), Atlanta, GA, May 2017 (9 pages, acceptance ratio: 292/1395=20.9%).

8. **Yimin Chen**, Xiaocong Jin, Jingchao Sun, Rui Zhang, and Yanchao Zhang, "POWERFUL: Mobile app fingerprinting via power analysis," *IEEE Conference on Computer Communications* (INFOCOM), Atlanta, GA, May 2017 (9 pages, acceptance ratio: 292/1395=20.9%).

9. Xiaocong Jin, Rui Zhang, **Yimin Chen**, Tao Li, and Yanchao Zhang, "DPSense: Differentially private crowdsourced spectrum sensing," *ACM Conference on Computer and Communications Security* (CCS), Vienna, Austria, October 2016 (12 pages, acceptance ratio: 137/831=16.5%).

10. Tao Li, **Yimin Chen**, Jingchao Sun, Xiaocong Jin, and Yanchao Zhang, "iLock: Immediate and automatic locking of mobile devices against data theft," *ACM Conference on Computer and Communications Security* (CCS), Vienna, Austria, October 2016 (12 pages, acceptance ratio: 137/831=16.5%).

11. Jingchao Sun, Xiaocong Jin, **Yimin Chen**, Jinxue Zhang, Rui Zhang, and Yanchao Zhang, "VISIBLE: Video-assisted keystroke inference from tablet backside motion," *ISOC Network and Distributed System Security Symposium* (NDSS), San Diego, CA, February 2016 (14 pages, acceptance ratio: 60/389=15.4%).

12. **Yimin Chen**, Jingchao Sun, Rui Zhang, and Yanchao Zhang, "Your song your way: Rhythm-based two-factor authentication for multi-touch mobile devices," *IEEE International Conference on Computer Communications* (INFOCOM), Hong Kong, China, April 2015 (9 pages, acceptance ratio: 316/1640=19.3%).

PROFESSIONAL ACTIVITIES

- **Program committee member** for **ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec) 2020**

- **Conference Reviewer** for:
  - ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec) 2020
  - IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE) 2016
  - IEEE International Conference on Pervasive Computing and Communications (PerCom) 2016
  - ACM Workshop on Privacy-Aware Mobile Computing (PAMCO) 2016
  - ACM Symposium on Information, Computer and Communications Security (AsiaCCS) 2015
  - IEEE International Conference on Computer Communications (INFOCOM) 2015

- **Journal Reviewer** for

  - IEEE/ACM Transactions on Network
  - IEEE Transactions on Vehicular Technology
  - IEEE Transactions on Mobile Computing
  - IEEE ACCESS

REFERENCES

Dr. Yanchao Zhang (Ph.D. adviser)
Professor, IEEE Fellow
School of Electrical, Computer, and Energy Engineering
Arizona State University
Tel: 480-727-0039
Email: yczhang@asu.edu

Dr. Wenjing Lou
Professor, IEEE Fellow
Department of Computer Science
Virginia Tech
Tel: 703-538-3774
Email: wjlou@vt.edu

Dr. Rui Zhang
Associate Professor
Department of Computer and Information Sciences
University of Delaware
Tel: 302-831-2010
Email: ruizhang@udel.edu