

YUXIA ZHAN

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EDUCATION

New York University

Ph.D. in Computer Science

Advisor: Prof. Michael Walfish

New York, NY, USA

Sept. 2024 - June 2029 (Expected)

Shanghai Jiao Tong University

M.Eng. in Computer Science (GPA: 3.92 / 4.0)

Summa Cum Laude

Advisor: Prof. Haojin Zhu in NSEC Lab

Shanghai, China

Sept. 2021 - Mar. 2024

Shanghai Jiao Tong University

B.Eng. in Computer Science (GPA: 89.23 / 100)

IEEE Pilot Class and Zhiyuan Honors Program

Shanghai, China

Sept. 2017 - June 2021

RESEARCH INTEREST

- Confidential computing and verifiable computing (recent focus).
- Privacy of the advertising ecosystem.
- Safety of cyber-physical systems (CPS).
- Privacy of XR/AR/VR systems.

EXPERIENCES

Research Intern @ IMDEA Software

Hosted by Prof. Juan Caballero and mentored by Dr. Srdjan Matic

Large-scale measurement on disposable email ecosystem.

Madrid, Spain

Apr. 2024 - Aug. 2024

Summer Intern @ Purdue

Hosted by Z. Berkay Celik

Latency attack towards object detection (OD) system.

West Lafayette, IN, USA (Remote)

June 2023 - Jan. 2024

Research Assistant @ SJTU

Advisor: Prof. Haojin Zhu

Compliance of VR APPs' privacy policies.

Behaviour-based de-anonymization attack in VR.

Shanghai, China

Sept. 2020 - Mar. 2024

PUBLICATIONS

Yuxia Zhan, Yan Meng, Lu Zhou, Yichang Xiong, Xiaokuan Zhang, Lichuan Ma, Guoxing Chen, Qingqi Pei, Haojin Zhu, "VPVet: Vetting Privacy Policies of Virtual Reality Apps", in *Proceedings of the 2024 on ACM SIGSAC Conference on Computer and Communications Security (CCS)*, 2024. [\[link\]](#)

Yuxia Zhan, Yan Meng, Lu Zhou, Haojin Zhu, "Vetting Privacy Policies in VR: A Data Minimization Principle Perspective", in *IEEE Conference on Computer Communications Workshops (INFOCOM WK-SHPS)*, 2023. [\[link\]](#) 🏆 **Best Poster Award**

Yan Meng, **Yuxia Zhan**, Jiachun Li, Suguo Du, Haojin Zhu, Xuemin Shen "De-Anonymizing Avatars in Virtual Reality: Attacks and Countermeasures", in *IEEE Transactions on Mobile Computing (TMC)*, 2024. [\[link\]](#)

Muchen Pan, Yan Meng, **Yuxia Zhan**, Guoxing Chen, Haojin Zhu, “PipID: Light-Pupillary Response Based User Authentication for Virtual Reality”, submitted to *Proceedings of ACM SIGSAC Conference on Computer and Communications Security (CCS)*, 2025. (To appear)

Raymond Muller, Ruoyu Song, Chenyi Wang, **Yuxia Zhan**, Jean-Philippe Monteuiis, Yanmao Man, Ming Li, Ryan Gerdes, Jonathan Petit, Z. Berkay Celik, “Investigating Physical Latency Attacks against Camera-based Perception”, accepted by *IEEE Symposium on Security and Privacy (S&P)* 2025. [\[link\]](#)

Jiachun Li, Yan Meng, **Yuxia Zhan**, Le Zhang, Haojin Zhu, “Dangers behind Charging VR Devices: Hidden Side Channel Attacks via Charging Cables”, in *IEEE Transactions on Information Forensics and Security (TIFS)*, 2024. [\[link\]](#)

Yan Meng, **Yuxia Zhan**, Jiachun Li, Suguo Du, Haojin Zhu, Xuemin Sherman Shen, “De-anonymization Attacks on Metaverse”, in *IEEE Conference on Computer Communications (INFOCOM)*, 2023. [\[link\]](#)

Brandon Falk, Yan Meng, **Yuxia Zhan**, Haojin Zhu, “POSTER: Reavatar: Virtual Reality De-anonymization Attack through Correlating Movement Signatures”, in *Proceedings of ACM SIGSAC Conference on Computer and Communications Security (CCS)*, 2021. [\[link\]](#)

TEACHING EXPERIENCE

CSCI-UA.0202: Operating Systems (Undergrad) *NYU, Fall 2025*
Instructor: Prof. Michael Walfish

CSCI-UA.0310: Basic Algorithms (Undergrad) *NYU, Summer 2025*
Instructor: Prof. Areeba Ikram

CS7350: Network Security (Graduate) *SJTU, Spring 2023*
Instructor: Prof. Haojin Zhu

HONORS AND AWARDS

- SOSP Student Travel Grant *ACM SIGOPS, 2024*
- Graduated with Distinction *Graduate School of SJTU, 2024*
- National Scholarship for Graduate Students (Top 1%) *Ministry of Education (China), 2023*
- ACM CCS iMentor Student Travel Grant *ACM CCS, 2023*
- Best Poster Award (Solely selected from all poster submissions) *IEEE INFOCOM, 2023*
- First-Class Master’s Academic Scholarship *Graduate School of SJTU, 2021-2023*
- Zhiyuan Honors Degree of Engineering (Top 3%) *Zhiyuan College of SJTU, 2021*
- Zhiyuan Honorary Scholarship (Top 5%) *Zhiyuan College of SJTU, 2017-2021*
- Special Freshman Scholarship *SJTU, 2017*

MISCELLANEOUS

- **Languages:** Mandarin Chinese (native), English (professional fluency), Spanish (beginner).
- Video editing and blogging.
- Proud cat foster.
- Tennis, football (soccer), hiking.

Last updated: 2025-10-10