

# Ying Yuan

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## Research Interests

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Cybersecurity; Machine Learning; Usable Security.

## Work Experience

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**Sapienza University of Rome**, Rome, Italy. Mar. 2025 – Present  
Postdoctoral Researcher, Department of Computer Science  
Supervisor: Prof. Luigi Vincenzo Mancini

**University of Padua**, Padua, Italy. Mar. 2024 – Feb. 2025  
Postdoctoral Researcher, Department of Mathematics  
Supervisor: Prof. Mauro Conti

## Education

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**University of Padua**, Padua, Italy. Oct. 2020 – Mar. 2024  
Ph. D. in Brain, Mind and Computer Science  
Advisor: Mauro Conti

**Beijing University of Posts and Telecommunications**, Beijing, China. Sep. 2017 – Jun. 2020  
Master of Engineering, Cyberspace Security  
Advisor: Hongliang Zhu

**QiLu University of Technology**, Jinan, China. Sep. 2013 – Jun. 2017  
Bachelor of Engineering, Computer Science and Technology

## Publications

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### Refereed publications

- [WWW '24] Ying Yuan, Qingying Hao, Giovanni Apruzzese, Mauro Conti, Gang Wang. "Are Adversarial Phishing Webpages a Threat in Reality? Understanding the Users' Perception of Adversarial Webpages" In Proc. of *The ACM Web Conference (WWW)*, 2024 (Oral, ACM Artifacts Available badge). Acceptance rate = 20.2%.
- [USENIX Security '24] Qingying Hao, Nirav Diwan, Ying Yuan, Giovanni Apruzzese, Mauro Conti, Gang Wang. "It Doesn't Look Like Anything to Me: Using Diffusion Model to Subvert Visual Phishing Detectors." In Proc. of *USENIX Security*, 2024 (Oral). Acceptance rate = 18.3%.
- [COSE '24] Ying Yuan, Giovanni Apruzzese, Mauro Conti. "Beyond the West: Revealing and Bridging the Gap between Western and Chinese Phishing Website Detection." In *(Elsevier) Computers & Security*, 2024.
- [DTRAP '23] Ying Yuan, Giovanni Apruzzese, Mauro Conti. "Multi-SpacePhish: Extending the Evasion-space of Adversarial Attacks against Phishing Website Detectors using Machine Learning." In *ACM Digital Threats: Research and Practice (DTRAP)*, 2023.
- [ACSAC '22] Giovanni Apruzzese\*, Mauro Conti, Ying Yuan\*. "SpacePhish: The Evasion-space of Adversarial Attacks against Phishing Website Detectors using Machine Learning." In Proc. of *ACSAC*, 2022 (Oral, ACM Artifacts Reusable, \*Equal contribution). Acceptance rate = 24.1%.
- [IEEE Access '19] Hongliang Zhu, Ying Yuan, Yuling Chen, Yaxing Zha, Wanying Xi, Bin Jia, and Yang Xin. "A Secure and Efficient Data Integrity Verification Scheme for Cloud-IoT based on Short Signature." In *IEEE Access*, 2019.
- [CEA '19] Ying Yuan, Hongliang Zhu, Yuling Chen, Zhi Ouyang, Yang Xin, Yixian Yang. "Survey of Data Integrity Verification Technology Based on Provable Data Possession." In *Computer Engineering and Applications*, 2019 (in Chinese).

## Patent

8. Hongliang Zhu, **Ying Yuan**, Yuling Chen, Ting Han, Yang Xin. "A Remote Data Integrity Verification Method Based on Short Signature." CN.2019101628311, 2019.

## Visiting Experience

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University of Liechtenstein – Visiting Scholar

Sep. 2023

Advisor: Giovanni Apruzzese

- [COSE'24] Investigated the gap between Chinese and Western phishing website detection.

University of Illinois at Urbana-Champaign – Visiting Scholar

Apr. 2023 – Jun. 2023

Advisor: Gang Wang

- [WWW'24] Investigated the threat of adversarial phishing websites in practice.
- [USENIX'24] Investigated the effectiveness of logos generated by diffusion model.

## Poster & Talk

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"Are Adversarial Phishing Webpages a Threat in Reality?" *The ACM Web Conference (WWW) 2024* (Poster & Oral).

## Project

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PAAM - Privacy Aware Anti Malware, PNRR 2022 PRIN, Mar. 2024 - Feb. 2025

## Code and Dataset Release

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- "Beyond the West: Revealing and Bridging the Gap between Western and Chinese Phishing Website Detection." <https://github.com/joanny/ChiPhish>
- "'Are Adversarial Phishing Webpages a Threat in Reality?' Understanding the Users' Perception of Adversarial Webpages." [https://github.com/hihey54/www24\\_threatAdvPhish](https://github.com/hihey54/www24_threatAdvPhish)
- "SpacePhish: The Evasion-space of Evasion Attacks against Phishing Website Detectors using Machine Learning." [https://github.com/hihey54/acsac22\\_spacephish](https://github.com/hihey54/acsac22_spacephish)

## Professional Qualification

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CITI IRB Training Completion certificate (Training in the Protection of Human Subjects)

## Original Vulnerabilities Contribution

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- CNVD-YCIW-201707053840
- CNVD-YCIW-201708048282

## Professional Services & Organization

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### Program Committee Member

- ESORICS, 2026
- USENIX Security Symposium, 2026
- Annual Computer Security Applications Conference (ACSAC), 2025

### Artifact Evaluation Committee Member

- USENIX Security Symposium, 2025
- ACM The Web Conference 2024 (Artifacts reviewer)

### Technical Program Committee Member

- Workshop on AI for Cyber Threat Intelligence, in conjunction with ACSAC 2024
- Workshop on Machine Learning and Deep Learning for Wireless Security, co-located with IEEE GLOBECOM 2024
- Workshop on DevSecOps Research and Opportunities, co-located with EuroS&P 2025

## Journal Reviewer

- IEEE Transactions on Dependable and Secure Computing (TDSC)
- Computer Standards & Interfaces
- IEEE Access

#### Conference Organization

- Assistant at The 27th International Symposium on Research in Attacks, Intrusions and Defenses (RAID) 2024, Padua, Italy

#### Summer School

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Participate in summer school on real-world crypto and privacy, Jun. 2022, Šibenik, Croatia

#### Competition

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Machine Learning Security Evasion Competition (MLSEC), won the 4th, Aug. 2022 - Sep. 2022

#### Professional Skills

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- **Programming Languages:** Python, Java, HTML, etc;
- **Machine Learning Algorithms:** RF, LR, SVM, XGBoost, CNN, LSTM, etc;
- **Penetration Testing:** BurpSuite, AWVS, Sqlmap, Nmap, etc;
- **Tools and OS:** Jupyter, Pandas, Numpy, Linux, Mysql, Overleaf, Qualtrics, Prolific, etc.
- **Languages:** English (IELTS B2, in 2020; and CEFR C1, in 2022), Chinese (Native)

#### Awards

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Outstanding Graduates of BUPT and Outstanding Graduates of Beijing	Jun. 2020
Cyber Security Scholarship	Oct. 2019
Outstanding Graduates of Shandong	Jun. 2017