



## Pavlo Burda

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### WORK EXPERIENCE

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2020 – 2023

#### Research-aaS coordinator b/w Threat Analysis group and IT department

Eindhoven University of Technology (TU/e), Netherlands 📍

Organizing and executing **Research as a Service** activities for IT department:

- evaluation of cyber-security organizational resilience (e.g., phishing assessments)
- data collection, analysis and infrastructure instrumentation for research (e.g., people and process analytics for organizational security)
- reports, recommendations and papers (e.g., measurements, policy assessments)

2018 – 2023

#### Supervisor and coordinator of scientific projects at MSc level

Eindhoven University of Technology, Netherlands 📍

8 students resulting in 8 theses and 7 scientific publications on phishing vulnerability assessment, detection and mitigation

2018 – 2022

#### Instructor and teaching assistant for Operating Systems

Eindhoven University of Technology, Netherlands 📍

- frontal instruction sessions with 200+ students
- coordination and timely execution of Linux-based C programming assessments

2019 – 2021

#### Administrator of lab activities for Computer Networks & Security

Eindhoven University of Technology, Netherlands 📍

- design and implementation of **lab infrastructure** for malware analysis (analysis environment, remote access and control) for 150+ students
- design and implementation of early-stage **SOC** for lab activities (Security Onion and Elastic Stack)

May – Oct 2017

#### Security Analyst

Communication Valley Reply, Milan 📍

- C-SOC monitoring and incident analysis, vulnerability and patching management

2016 - 2017

#### Lecturer - Tutor

Volta College - University of Pavia, Italy 📍

- Design and delivery of instructions for **Computer Science**, C, **Python for web** and **LaTeX**

### HIGHLIGHTS AND IMPACT

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#### Highlights

- Expertise in assessment of **phishing vulnerability** [9] [6], **attack features and user interaction** in Social Engineering (SE) [1] [4], technological [8] [10] and organizational **mitigation strategies** against phishing [3] [5] and **people analytics** for security [2].
- The **RaaS collaboration** contributed to the **adoption of MFA** and in the uptake of **anti-phishing training** (embedded phishing exercises) and **mitigation strategies** (**streamlining** suspicious email reporting process) at TU/e.

#### Media

- Better resistance to phishing temptation - **Cursor**
- Pas op voor phishing op maat (Beware of tailored phishing) - **Computer Idee**

- Talks**
- **Phishing experiments with humans: effectiveness of tailored phishing techniques** - Tailored phishing vulnerability assessment @ Ei/PSI seminar TU/e, Eindhoven 2019
  - **Why does the weakest link fail: phishing experiments with humans** - Phishing susceptibility and mitigation @ Risk & Resilience Festival UTwente, Enschede 2019
  - **Human cognition and Social Engineering attacks** - Interactions between Social Engineering and cognitive sciences @ IST Seminar TU/e, Eindhoven 2021
  - **Mapping human cognition to Social Engineering attacks: a research overview** - Overview of the human attack surface @ CISPA, Saarbrücken 2023

## EDUCATION

2018 – 2024 **PhD in Computer Security - Speciality in Phishing and Social Engineering**  
Eindhoven University of Technology, Netherlands 📍

**Title:** Let the weakest link fail, but gracefully: understanding tailored phishing and measures against it [\[12\]](#)

Investigating the interactions between sophisticated phishing attacks, features of human cognition and organizational cyber security processes:

- characterizing and estimating risks of advanced phishing attacks
- developing organizational and technological mitigation strategies
- investigating interactions of human factors and organizational security processes

11 scientific publications at venues such as CHI [\[1\]](#) [\[2\]](#), EuroS&PW [\[3\]](#) [\[4\]](#) [\[5\]](#) [\[6\]](#) [\[7\]](#), FPS [\[8\]](#) and ARES [\[9\]](#) [\[10\]](#) [\[11\]](#)

2015 – 2017 **MSc in Computer Engineering**

University of Pavia, Italy 📍

- Thesis: Design and Implementation of a Forensic Triage Tool

2012 – 2015 **BSc in Electronic and Computer Engineering**

University of Pavia, Italy 📍

- Thesis: General purpose server for remote sensor management, control and data viz.

## SKILLS and EXPERIENCES

- Technical experience**
- **Phishing vulnerability assessment** - experience with academic research, RaaS
  - **Tracking emerging threats, techniques and actors** - experience with academic research, tool creation, social engineering threat analysis and intelligence
  - **People analytics** - quantitative and qualitative **data collection** for research (measurements, surveys and interviews) and **data analysis** in R
  - **Python, C, JavaScript, Java, bash scripting** - experience with research, teaching, data collection and processing, tooling, personal projects
  - **Linux and Windows administration** - implementing lab infrastructure and activities
  - **AMTurk, AWS, Exchange API, web technologies** - experience with research, design of experiments, data pipelines, personal projects
  - **InfoSec tools and techniques** - familiarity with network security software (SIEM, SMS, IPS, IDS), such as Qradar, Splunk, FireEye, Firesight and TippingPoint
  - **Hacking tools** - familiarity using nmap, metasploit, wireshark and others, forensic software, OSINT techniques
  - **Multimedia & Typesetting** - experience with producing content (Office,  $\LaTeX$ , graphics)

### Volunteering

2019 – 2022 **PhD Council** at TU/e - Mediating discussion points between TA colleagues and Department Board (e.g., periodic meetings, surveys, feedback)

2022 – 2023 **Foundation Ukrainians in the Netherlands** - Contact person at TU/e for student matters (e.g., interfacing with TU/e Board and Education Affairs, support cases, surveys)

**Languages** Italian, Ukrainian (mother tongues), English (professional proficiency), Czech, Polish (basic), Dutch (elementary)

**Interests** Sci-Fi, tennis, cyber warfare and fine food