



## 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 📍

Alignment of research directions between groups and proposition of a research program meeting mutual needs:

- 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

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)

2018 – 2022

#### Instructor and teaching support for Operating Systems

Eindhoven University of Technology, Netherlands 📍

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

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 [L<sup>A</sup>T<sub>E</sub>X](#)

### 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 the uptake of **anti-phishing training** (embedded phishing exercises) and **mitigation strategies** ([stream-lining](#) 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](#)

- Seminars**
- CISPA, Saarbrücken - 2023 - **Mapping human cognition to Social Engineering attacks: a research overview** (overview of the human attack surface)
  - TU/e, Eindhoven - 2021 - **Human cognition and Social Engineering attacks** (interactions between social engineering and cognitive sciences) - IST Seminar
  - UTwente, Enschede - 2019 - **Why does the weakest link fail: phishing experiments with humans** (phishing susceptibility and mitigation) - Risk & Resilience Festival
  - TU/e, Eindhoven - 2019 - **Phishing experiments with humans: effectiveness of tailored phishing techniques** (tailored phishing vulnerability assessment) - EiPSI sem.

## EDUCATION

2018 – 2024

### Doctorate in Information Security - Speciality in Advanced Phishing

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](#) spanning multiple disciplines including human computer interaction and technical communities

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 for security** - 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 UA 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