

## Pavlo Burda

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#### **WORK EXPERIENCE**

#### 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 **Q** 

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 9

• Design and delivery of instructions for Computer Science, C, Python for web and LTEX

#### HIGHLIGHTS AND IMPACT

## 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 antiphishing 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 [in press]

#### Seminars

- CISPA, Saarbrucken 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

# PhD in Computer Security - Speciality in Phishing and Social Engineering

Eindhoven University of Technology, Netherlands **Q** 

**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
- $\boldsymbol{\cdot}$  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 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