Alessandro Palma

Curriculum Vitae

Education

Nov 2021–Oct 2024	**PhD in Engineering in computer science, program XXXVII**, *Sapienza University of Rome*, Department of Computer, Control, and Management Engineering (DIAG), Rome (RM). Cyber Risk Management, Attack Modelling.
Feb 2024–Jul 2024	**Visiting Scholar at Télécom SudParis**, *Institut Polytechnique de Paris*, SAMOVAR research group, Paris (FR).
Oct 2018–Oct 2020	**Master Degree in Engineering in computer science LM-32**, *Sapienza University of Rome*, Roma (RM).
	○ Thesis: *Context-aware Cyber Risk Assessment Review: a Multi-layer Attack Graph-based Methodology*
	○ 110 cum laude
Sep 2015–Oct 2018	**Bachelor Degree in Computer Engineering L-8**, *University of Rome "Tor Vergata"*, Rome (RM).
	○ Thesis: *Machine Learning: Tecniche e Algoritmi di Profilazione Automatizzata per l'Applicazione Beerer*
	○ 110/110

Working experiences

Nov 2020-Nov 2021	**Computer Engineer Research Fellow and consultant**, *CINI - Laboratorio Nazionale di Cybersecurity*, Rome, RM.
	○ Research fellow in cybersecurity risk management and assessment;
	○ Design and development of Visual Analytics tools for big data applications.

Publications

[1] **It Is Time To Steer: A Scalable Framework for Analysis-driven Attack Graph Generation**, *A. Palma, M. Angelini*, The 29th European Symposium on Research in Computer Security (ESORICS), Springer, LNCS, Bydgoszcz (Poland), Sep 2024.
-ACCEPTED to appear-

[2] **BenchIMP: A Benchmark for Quantitative Evaluation of the Incident Management Process Assessment**, *A. Palma, N. Bartoloni, M. Angelini*, The 19th International Conference on Availability, Reliability and Security (ARES), ACM, New York, NY, (USA), Vienna (Austria), Jul 2024.

[3] **Visually Supporting the Assessment of the Incident Management Process**, *A. Palma, M. Angelini*, EuroVis Workshop on Visual Analytics (EuroVA), The Eurographics Association, 2024. Odense (Denmark), May 2024.

[4] **A Workflow for Distributed and Resilient Attack Graph Generation**, *A. Palma, S. Bonomi*, The 53rd Annual IEEE/IFIP International Conference on Dependable Systems and Networks-Supplemental Volume (DSN-S), IEEE, 2023. p. 185-187. Porto (Portugal), June 2023.

[5] **Context-Aware Trace Alignment with Automated Planning**, *G. Acitelli, M. Angelini, S. Bonomi, F.M. Maggi, A. Marrella, A. Palma*, 4th International Conference on Process Mining (ICPM) 2022, IEEE, 2022. p. 104-111. Bozen-Bolzano (Italy), October 2022.

[6] **Toward a Context-Aware Methodology for Information Security Governance Assessment Validation**, *M. Angelini, S. Bonomi, C. Ciccotelli and A. Palma*, The 1st International Workshop on Cyber-Physical Security for Critical Infrastructures Protection co-located with ESORICS 2020, Springer International Publishing, 2020. p. 171-187. Guildford, UK, September 2020.

Teaching

A.Y. 2022/2023 **Tutor of the course "Dependable Distributed System"**, *Sapienza University of Rome*, MSc Engineering In Computer Science, Department of Computer, Control, and Management Engineering (DIAG). Rome (RM).

A.Y. 2021/2022 **Tutor of the course "Fondamenti di Informatica"**, *Sapienza University of Rome*, BSc Communication and Electronic Engineering, Department of Information Engineering, Electronics and Telecommunications (DIET). Rome (RM).

Scientific Roles

From 2024 **Reviewer for international journals**.
- Journal of Information Security and Applications;
- IEEE Access;

PC member at EXTRAAMAS 2024, *International Workshop on EXplainable and TRAnsparent AI and Multi-Agent Systems*.

PC member at IEEE CSR SDG 2024, *International Workshop on Synthetic Data Generation for a Cyber-Physical World*.

Poster PC member at AVI 2022, *International Conference on Advanced Visual Interfaces*.

Poster PC member at AVI 2022, *International Conference on Advanced Visual Interfaces*.

Scientific Participation

May 2023 **Student Volunteer at EuroSys2023**, *Rome, Italy*.
EuroSys is a premier conference on various aspects of systems software research and development, including its ramifications for hardware and applications.

Jan 2023 **DeepLearn 2023 Winter School**, *Bournemouth, UK*.
DeepLearn 2023 Winter is a research training event aiming at updating on the most recent advances in the critical and fast-developing area of deep learning.

Jun 2022 **Speaker at ITASEC**, *Rome (RM)*.
ITASEC is the Italian conference on cybersecurity. I presented the work "A Methodology To Support Automatic Cyber Risk Assessment Review"

Jun 2022 **Student Volunteer at EuroVis2022**, *Rome (RM)*.
EuroVis is the annual Visualization Conference organized by the Eurographics Working Group on Data Visualization.

Jun 2020 **Reasoning Web Summer School**, *"Declarative Artificial Intelligence"*.
Reasoning Web Summer School deals with recent advancements on the field of Semantic Web and Linked Data applications.

Dec 2017–Apr 2018 **Bootcamp "Google Technologies for Cloud and Web Development"**, *Sapienza University of Rome*, Rome (RM).
- Best project and working team;
- Presentation of the project to Tel Aviv Google Team;
- Start-up project with Google API;

Awards and Certificates

Jul 2024 **Best Research Paper Runner Up**.
ARES 2024, Vienna, Austria

Oct 2023 **Winner of the Ph.D. mobility scholarship**.
Sapienza University of Rome

Oct 2022 **Winner of the research scholarship *Bando di avvio alla ricerca***.
Sapienza University of Rome

Feb 2022	**National teaching certificate (24 CFU per l'insegnamento)**. Sapienza University of Rome
Dec 2020	**National qualification to practice as Engineer**. Sector: Information Engineering, Section A
Feb 2020–Sep 2020	**Honour program**, *Sapienza University of Rome*. Transformation methods from relational models to NoSQL models: a semantic study.
May 2020	**GDPR course 679/2016**.

Languages

Italian	**Level: Mother tongue**
English	**Level: B2**
French	**Level: A2**

I authorize the processing of my personal data present in the curriculum vitae pursuant to Legislative Decree 30 June 2003, n. 196 and of the GDPR (EU Regulation 2016/679).