



Alessandro Armando

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ABOUT ME

Professor in Computer Engineering
Research Interests: Cybersecurity, Automated Reasoning

WORK EXPERIENCE

19/07/2024 – CURRENT Italy

DIRECTOR OF THE CYBERSECURITY NATIONAL LABORATORY CINI (CONSORZIO INTERUNIVERSITARIO NAZIONALE PER L'INFORMATICA)

The CINI Cybersecurity National Laboratory coordinates a network of 59 interconnected nodes, located at the country's main universities, research institutes and military academies. The nodes globally include over 800 professors and researchers and extend across the entire national territory. CINI is the National Interuniversity Consortium for Informatics.

Website <https://cybersecnatlab.it/>

01/01/2023 – CURRENT Italy

CHAIRMAN OF THE SCIENTIFIC COMMITTEE SERICS FOUNDATION

The SERICS Foundation is the hub of the SERICS Extended Partnership, a nation-wide initiative aimed to advance research on Cybersecurity and on how individual rights can be protected in the Cyberspace. SERICS features the involvement of 450+ researchers (including 100+ newly appointed young researchers), academic and research centers most active in Cybersecurity, and prominent industrial partners.

Website <https://serics.eu/en/>

30/04/2016 – CURRENT Genoa, Italy

FULL PROFESSOR IN COMPUTER ENGINEERING UNIVERSITY OF GENOA - DEPT. OF INFORMATICS, BIOENG., ROBOTICS AND SYSTEMS ENGINEERING (DIBRIS)

31/03/2010 – 30/12/2016 Trento, Italy

FOUNDER AND HEAD OF RESEACH UNIT "SECURITY & TRUST" BRUNO KESSLER FOUNDATION - CENTRE FOR INFORMATION TECHNOLOGIES

31/12/2003 – 30/03/2016 Genoa, Italy

ASSOCIATE PROFESSOR IN COMPUTER ENGINEERING UNIVERSITY OF GENOA - DEPT. OF INFORMATICS, SYSTEMS ENGINEERING AND TELECOMMUNICATIONS (DIST)

30/09/1998 – 29/09/1999 Nancy, France

VISITING RESEARCHER INRIA - LORRAINE

30/06/1994 – 19/06/1995 Edinburgh, United Kingdom

RESEARCH FELLOW UNIVERSITY OF EDINBURGH - DEPARTMENT OF ARTIFICIAL INTELLIGENCE

04/07/1995 – 30/12/2003 Genoa, Italy

ASSISTANT PROFESSOR IN COMPUTER ENGINEERING UNIVERSITY OF GENOA - DIST

● EDUCATION AND TRAINING

31/10/1990 – 14/09/1994

PHD IN ELECTRONIC AND COMPUTER ENGINEERING University of Genoa

31/10/1983 – 20/12/1988 Genoa, Italy

MSC IN ELECTRONIC ENGINEERING University of Genoa

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● MANAGEMENT AND LEADERSHIP SKILLS

Founding Director of the Security & Trust Research Unit, Center for Information Technologies, Bruno Kessler Foundation, Trento

Founded in 2010, led until 2016 when it comprised 15 researchers

Link <https://st.fbk.eu>

Founding Director of the Computer Security Laboratory, DIBRIS, University of Genoa

Founded in 2014, currently comprises 6 faculty members and 5 PhD students.

Link <https://www.csec.it>

Director of the joint Monitor on "Cybersecurity and Certification" between Accredia, the Italian accreditation body, and the CINI National Cybersecurity Laboratory

Founded on Jan 1, 2022

● CONFERENCES

10/08/2008 – 15/08/2008

4th International Joint Conference on Automated Reasoning (IJCAR 2008)

Sidney, Australia
Program co-chair

07/04/2002 – 10/04/2002

4th International Workshop on Frontiers of Combining Systems (FroCoS 2002)

Program chair
Santa Margherita Ligure, Italy

06/09/2020 – 10/09/2020

5th IEEE European Symposium on Security and Privacy (IEEE EuroSP 2020)

Conference co-chair

27/03/2017 – 29/03/2017

Advanced Research Workshop - "New Generation CERT: from Response to Readiness - Strategy and Guidelines"

Co-director;

07/04/2021 – 09/04/2021

Program co-chair of the 5th Italian Conference on Cybersecurity (ITASEC 2021)

Link <https://2021.itasec.it/>

● **PROJECTS**

01/01/2023 – 31/12/2025

Security and Rights in the Cyber Space (SERICS)

Extended Partnership funded by the National Recovery and Resilience Plan – Next Generation EU.
Roles: Chairman of the Scientific Committee and Coordinator of Spoke 4 "Operating Systems and Virtualization Security".

Link <https://serics.eu>

31/01/2019 – 29/06/2022

Special projects for advanced research and technology in Europe (SPARTA)

Funded by the EU, Horizon Europe Program - Role: Scientific Coordinator of CINI

30/04/2018 – 29/04/2020

Integrated Framework for Predictive and Collaborative Security of Financial Infrastructures (FINSEC)

Funded by the EU, Horizon Europe Program - Role: Scientific Coordinator of CINI

10/10/2010 – 09/10/2013

Secure Provision and Consumption in the Internet of Services (SPaCIoS)

Funded by the EU, FP7 Program - Role: Scientific Coordinator of UniGe

31/12/2007 – 30/12/2010

Automated Validation of Trust and Security of Service-oriented Architectures (AVANTSSAR)

Funded by the EU, FP7 Program - Role: Scientific Coordinator of UniGe

31/12/2002 – 29/06/2005

Automated Validation of Internet Security Protocols and Applications (AVISPA)

Funded by the EU, FP5 Program - Role: Project Coordinator
Nomination for the Descartes Prize for excellence in scientific collaborative research

● **PUBLICATIONS**

2021

[Adversarial EXEmples: A Survey and Experimental Evaluation of Practical Attacks on Machine Learning for Windows Malware Detection](#)

Authors: L. Demetrio, S. E. Coull, B. Biggio, G. Lagorio, A. Armando, F. Roli.

ACM Transactions on Privacy and Security, 24(4)

2021

[Functionality-Preserving Black-Box Optimization of Adversarial Windows Malware](#)

Authors: L. Demetrio, B. Biggio, G. Lagorio, F. Roli, A. Armando

IEEE Transactions on Information Forensics and Security, 16

2020

[Building Next Generation Cyber Ranges with CRACK](#)

Authors: E. Merlo, G. Costa, A. Armando.

Computers & Security

2017

[Anatomy of the Facebook solution for mobile single sign-on: Security assessment and improvements](#)

Authors: G. Sciarretta, R. Carbone, S. Ranise, A. Armando

Computers & Security 71, 71-86

2013

[An authentication flaw in browser-based Single Sign-On protocols: Impact and remediations](#)

Authors: A. Armando, R. Carbone, L. Compagna, J. Cuellar, G. Pellegrino, A. Sorniotti

Computers & Security 33, 41-58

[Complete list of publications on DBLP](#)

● **PATENTS**

19/04/2017 – CURRENT

[Dynamic Analysis Security Testing of Multi-Party Web Applications Via Attack Patterns](#)

Authors: L. Compagna, A. Sudhodanan, R. Carbone, A. Armando

Publication number: US 20170109534 A1

● **ACADEMIC ACTIVITY**

31/10/2020 – 18/04/2024

[Director of the PhD Program in Security, Risk and Vulnerability](#)

A multidisciplinary PhD program in security of the University of Genoa, <https://sicurezza.unige.it/dottorato>

31/10/2017 – 29/10/2018

[Director of the 1st level university master \(master universitario di I livello\) in "Digital Forensics e Tecnologie Cyber"](#)

jointly by U. of Modena e Reggio Emilia and U. of Genoa

31/10/2015 – 30/10/2017

[Director of the 2nd level university master \(master universitario di II livello\) in Cyber Security and Data Protection](#)

University of Genoa, <https://www.mastercybersecurity.it>

31/03/2013 – 30/03/2017

[A European Industrial Doctorate on Security and Trust of Next Generation Enterprise Information Systems \(SECENTIS\)](#)

Funded by the EU, FP7 Program - Role: Scientific Coordinator of FBK

[Boeing-UNIGE Scholarship Project](#)

The project offers students of the University of Genoa an innovative Cybersecurity training path and scholarships through innovative and engaging hands-on activities.

Academic years: 2017-18, 2018-19, 2019-20 (3 editions)

Funded by Boeing Company

[Leonardo-UNIGE Cybersecurity Scholarship Project](#)

The project offers students of the University of Genoa an innovative Cybersecurity training path and scholarships through innovative and engaging hands-on activities.

Academic years: 2020-21, 2021-22, 2022-23 (3 editions)

Funded by Leonardo Company

01/09/2019 – CURRENT

Course Teacher of "Cyber Security Systems", MBA Post-Graduate Studies on Cybersecurity Management of the Military University of Technology, Warsaw

5 editions, starting in academic year 2019-2020

Link <https://www.wojsko-polskie.pl/wat/en/postgraduate-studies-mba/>

Supervisor of 10+ PhD theses and 30+ master theses

● **ADVISORY COMMITTEES**

01/09/2020 – 31/12/2021

Member of the Advisory Board of the H2020 Project Security of Air Transport Infrastructure of Europe (SATIE)

Link <https://satie-h2020.eu/>

01/09/2021 – CURRENT

Member of the International Scientific Committee of the UK Research and Innovation Trustworthy Autonomous Systems (TAS) Hub

Link <https://www.tas.ac.uk/>