



Claudio Agostino Ardagna

Date of birth: [REDACTED] Nationality: [REDACTED] Gender: [REDACTED]

WORK EXPERIENCE

20/10/2020 – CURRENT – Milan, Italy
FULL PROFESSOR – UNIVERSITÀ DEGLI STUDI DI MILANO

Associate Professor [2015 – 2020]
Assistant Professor [2008 – 2015]

2021 – CURRENT – Italy
DIRECTOR OF THE CINI (CONSORZIO INTERUNIVERSITARIO NAZIONALE PER L'INFORMATICA) NATIONAL LAB ON BIG DATA – CONSORZIO INTERUNIVERSITARIO NAZIONALE PER L'INFORMATICA (CINI)

<https://www.conorzio-cini.it/index.php/en/labbigdata-home>

2017 – CURRENT – Milan, Italy
CO-FOUNDER OF MOON CLOUD - CLOUD MONITORING AND ASSURANCE – MOON CLOUD SRL

Moon Cloud is a spin-off of the Università degli Studi di Milano for security governance and compliance of IT systems.

2018 – CURRENT – Italy
VICE-COORDINATOR OF THE DIRECTION COMMITTEE OF THE DATA SCIENCE RESEARCH CENTER, UNIVERSITÀ DEGLI STUDI DI MILANO

<https://datascience.unimi.it/>

2021 – CURRENT
STEERING COMMITTEE MEMBER, IEEE TRANSACTIONS ON CLOUD COMPUTING

2019 – CURRENT
MEMBER OF THE RESEARCH OBSERVATORY OF THE UNIVERSITÀ DEGLI STUDI DI MILANO – UNIVERSITÀ DEGLI STUDI DI MILANO

2021
SECRETARY OF THE IEEE TECHNICAL COMMITTEE ON SERVICES COMPUTING (TCSVC)

<http://tab.computer.org/tcsvc/>

EDUCATION AND TRAINING

2004 – 2008
PH.D IN COMPUTER SCIENCE – Università degli Studi di Milano

1998 – 2003
MASTER IN COMPUTER SCIENCE (WITH FULL MARKS AND HONORS) – Università degli Studi di Milano.

LANGUAGE SKILLS

Mother tongue(s):

Other language(s):

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken production	Spoken interaction	

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

SCIENTIFIC PROFILE

Scientific Profile

Prof. Claudio Ardagna has 35 journal papers, 115 book chapters and refereed articles in proceedings of international conferences/workshops, and 12 books as an author or editor. With 144 publications listed on DBLP (https://dblp.org/pers/hd/a/Ardagna:Claudio_Agostino), 146 publications listed on Scopus, and 53 publications on IEEExplore, he can be generally considered a prolific computer scientists.

Prof. Ardagna is co-inventor of the European Patent titled "Method, System, Network and Computer Program Product for Positioning in a Mobile Communications Network" (with M. Anisetti, V. Bellandi, E. Damiani, S. Reale), filed with Siemens Networks (now Nokia Siemens) and is co-founder of the spin-off of the Università degli Studi di Milano called Moon Cloud (www.moon-cloud.eu). He is co-author of the book "Open Source Systems Security Certifications" (with E. Damiani, N. El Ioini, Springer, 2008). Prof. Ardagna has been active in different domains in the topics of the project. Notable is his work on (a) security certification for distributed systems (his papers on this topic compared in top-level journals such as ACM TWEB), (b) cloud assurance (his papers on this topics compared in top-level journals such as IEEE TSC, ACM CSUR), and (c) Big Data analytics (his papers on this topic compared in top-level journals such as IEEE TSC) and (d) early work on edge devices and, in particular, location-based service privacy and cellphone geolocalization (his papers on these topics compared in top-level journals such as IEEE TWC, IEEE TDSC, IEEE TOIT, IEEE TCPS). His spin-off Moon Cloud won the second prize at StartCup Lombardia 2017 and reached the four first places at the National Innovation Prize in Italy. He has participated to different standardization efforts including: participation to the Cloud Security Alliance Metrics subgroup, part of Cloud Trust working group, the writing of the document titled "Requirements and Recommendations for Assurance in Cloud Security – Part 1: Contributed recommendations from European projects" in the context of the CEN/CENELEC CWA workshop "Requirements and Recommendations for Assurance in Cloud Security (RACS)", participation to the ETSI Cloud Standards Coordination (CSC) Task Force, and contribution to the work of the ETSI CSC Standardization Effort.

He is member of the editorial board of IEEE Transactions on Cloud Computing, IEEE Transactions on Services Computing, IEEE Access, International Journal of Mobile Computing and Multimedia Communications, Mobile Information Systems, International Journal of Big Data. He is Section Editor of the Data Handling & Mining section for PeerJ Computer Science. He has been reviewer of top international journals such as ACM TWEB, IEEE TCC, IEEE TDSC, IEEE TIFS, IEEE TMC, IEEE TPDS, IEEE TSC.

PROJECTS

Participation in Research Projects

Prof. Ardagna is LTP unit leader in H2020 IMPETUS and H2020 ADMIRE projects. He is participating in H2020 CONCORDIA project, one of the four EU pilot projects launched to prepare the European Cybersecurity Competence Network. He participated in one of the biggest project in the ICT - Big Data call (TOREADOR). He was lead researcher for the TENDER ENISA D-COD-16-C12 titled "Study on security aspects of virtualization". He was unit coordinator for the following projects, accepted but NOT funded: i) "end to end aPPlication dEvelopment for induStRy 4.0 (DOPPLER)", BANDO PRIN 2017 (Linea B); ii) "Mining sOftware repoSitories for progrAm maintenance and seCurity (MOSAIC)", BANDO FIRB - PROGRAMMA FUTURO IN RICERCA Anno 2008.

List of main projects (last 6 years)

1. Intelligent Management of Processes, Ethics and Technology for Urban Safety (IMPETUS), EU Horizon 2020 (SU-INFRA02 - Security for smart and safe cities, including for public spaces), Role: LTP Unit Leader
2. Adaptive multi-tier intelligent data manager for Exascale (ADMIRE), EU Horizon 2020 (EuroHPC-2019-1 - Towards Extreme Scale Technologies and Applications), Role: LTP Unit Leader
3. Cyber security cOMpeteNce fOr Research and Innovation (CONCORDIA), Horizon 2020 (SU-ICT - Boosting the effectiveness of the Security Union), Role: Deputy Unit Leader
4. Cyber Security Threats and Threat Actors Training - Assurance Driven Multi-Layer, end-to-end Simulation and Training (THREAT-ARREST). Horizon 2020 (EU.3.7.4 - Improve cyber security), Role: WP Leader
5. Trustworthy model-aware Analytics Data platfORm (TOREADOR), Horizon 2020 (ICT - Big data), Role: WP Leader
6. Evidenced based management of hearing impairments: Public health policy making based on fusing big data analytics and simulaTION (EVOTION), Horizon 2020 (ICT - Big data), Role: Participant

CONFERENCES AND SEMINARS

Organization of scientific meetings

Program Chair for 16 conferences in the field of secure service-oriented computing (e.g., IEEE CLOUD, IEEE SCC, C&TC, WISTP) and contributed to the organization of several conferences at different levels (track chair, Ph.D. symposium chair, finance chair, publication chair, publicity chair). He is Program Chair in Chief for IEEE SERVICES 2022. He was a program committee member of more than 200 workshops and conferences.

Invited speaker in international conferences/workshops

1. "ML Training poisoning prevention", SSRC Summit, Dubai, UAE, October 27, 2021
2. "Certification of Modern Distributed Systems", Beijing University of Posts and Telecommunications, February 24, 2021 (remote)
3. "Implementing AI pipelines for Cyber Security", ENISA Workshop on "Artificial Intelligence - An opportunity for the EU cyber crisis management", Athens, Greece, June 4, 2019 (with E. Damiani)
4. "A Model-Based Big Data Analytics-as-a-Service Approach", BDVe MeetUp, Sofia, Bulgaria, May 14, 2018
5. "Security certification of services", 2nd International Workshop on Policies for the Future Internet (PoFI 2011), Pisa, Italy, June 9, 2011
6. "Privacy and Security in Distributed and Pervasive Systems", 5th International Workshop on Security and Trust Management (STM 2009), Saint Malo, France, September 25, 2009

ACADEMIC ACTIVITIES

Teaching Activities

Instructor for Computer Networks, Web and Cloud Applications, Cloud and Distributed Computing, Database Lab. (BSc and MSc programs), more than 10 PhD courses (PhD program in Computer Science of Università degli Studi di Milano), Security Governance and Assurance of Distributed Systems (Summer School on Hot Topics in Cyber Security) [1996-2020]

Contribution to early careers of researchers/students

Advisor of some younger researchers at all degree levels. For example, he successfully (co-)supervised three Ph.D. students and he is (co-)supervising two Ph.D. students. He is/has been (co-)advisor of more than 100 (bachelor and master) thesis focusing on different topics related to security data protection, cloud, Big Data, and mobile networks. He supervised 8 bachelor/master/Ph.D. students visiting the Università degli Studi di Milano. He is member of the professor commission of the Ph.D. School in Computer Science, Università degli Studi di Milano, and has been member of the external commission for the final evaluation of the Ph.D. Students in Computer Science at Sapienza University of Rome and University of Insubria.

HONOURS AND AWARDS

2021

Best Paper Award

ACM MEDES 2021, Best Paper Award

2020

Best Paper Award

SECRYPT 2020, Best Student Paper Award

2009

Best Ph.D. Thesis

ERCIM (European Research Consortium for Informatics and Mathematics) WG STM 2009 Award for the Best Ph.D. Thesis on Security and Trust Management

2013

IFIP Silver Core Award

International Federation for Information Processing (IFIP) Silver Core Award "in recognition of outstanding services to IFIP"

VISITING

2021

Visiting Scholar @ BUPT

February–March 2020: Visiting scholar (remote visit due to COVID-19), Beijing University of Posts and Telecommunications, Beijing, China

2017

Visiting Scholar @ Khalifa University

Visiting scholar, Etisalat BT Innovation Centre (EBTIC), Khalifa University, Abu Dhabi, UAE

2016

Visiting Scholar @ Khalifa University

Visiting scholar, Etisalat BT Innovation Centre (EBTIC), Khalifa University, Abu Dhabi, UAE

2014

Visiting Scholar @ Khalifa University

Visiting scholar, Etisalat BT Innovation Centre (EBTIC), Khalifa University, Abu Dhabi, UAE

2010

Visiting Scholar @ George Mason University

Visiting scholar, Center for Secure Information Systems (CSIS) Department, George Mason University, VA, USA

2010

Visiting Scholar @ George Mason University

Visiting scholar, Center for Secure Information Systems (CSIS) Department, George Mason University, VA, USA

2008

Visiting Scholar @ George Mason University

Visiting scholar, Center for Secure Information Systems (CSIS) Department, George Mason University, VA, USA

PUBLICATIONS

Publication list (5 publications)

- Claudio A. Ardagna, Rasool Asal, Ernesto Damiani, Nabil El Ioini, Mehdi Elahi, Claus Pahl: From Trustworthy Data to Trustworthy IoT: A Data Collection Methodology Based on Blockchain. *ACM Trans. Cyber Phys. Syst.* 5(1): 11:1-11:26 (2021)
- Claudio A. Ardagna, Rasool Asal, Ernesto Damiani, Theo Dimitrakos, Nabil El Ioini, Claus Pahl: Certification-Based Cloud Adaptation. *IEEE Trans. Serv. Comput.* 14(1): 82-96 (2021)
- Marco Anisetti, Claudio Agostino Ardagna, Ernesto Damiani, Filippo Gaudenzi: A Semi-Automatic and Trustworthy Scheme for Continuous Cloud Service Certification. *IEEE Trans. Serv. Comput.* 13(1): 30-43 (2020)
- Claudio A. Ardagna, Mauro Conti, Mario Leone, Julinda Stefa: An Anonymous End-to-End Communication Protocol for Mobile Cloud Environments. *IEEE Trans. Serv. Comput.* 7(3): 373-386 (2014)
- Marco Anisetti, Claudio A. Ardagna, Ernesto Damiani, Gianluca Polegri: Test-Based Security Certification of Composite Services. *ACM Trans. Web* 13(1): 3:1-3:43 (2019)

A complete list of publications can be found at <https://dblp.org/pid/62/575.html>

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.



