

Chiara Luchini is a PhD student in Computer Science at the University of Florence's "Dottorato di Ricerca in Matematica, Informatica, Statistica", affiliated with the University of Perugia. In 2023, she graduated from the University of Perugia with a Master's Degree in Computer Science curriculum Cybersecurity. Her research activities are mainly focused on Distributed Ledger Technologies (DLT) and, in particular, on Self-Sovereign Identity (SSI), a model for managing digital identities in which individuals have sole ownership over the ability to control their accounts and personal data.

### Education

- November 2023 – today **Ph.D. in Computer Science**, "*Dottorato di Ricerca in Matematica, Informatica, Statistica*", University of Florence, Florence, Italy
- October 2020– **M.Sc. in Computer Science, Curriculum Cybersecurity**, *University of Perugia*, Perugia, Italy
  - September 2023 ○ Thesis title: *Policy-based Credential Disclosure in SSI*
  - September 2023 ○ Supervisor: Prof. Stefano Bistarelli, Prof. Francesco Santini
- October 2016 **B.Sc. in Computer Science**, *University of Perugia*, Perugia, Italy
  - November 2020 ○ Thesis title: *Un dispositivo per il controllo di rete basato su Raspberry: Darkbox*
  - Supervisor: Prof. Francesco Santini
  - Co-supervisor: Dott. Marco Marcellini

### Teaching Experience

- November 2023 – now **Cultore della Materia**, *Department of Mathematics and Computer Science*, University of Perugia, Perugia, Italy
  - Course of *Cybersecurity with laboratory* - SSD: INF/01 - Master's degree in Computer Science
- November 2023 – now **Cultore della Materia**, *Department of Mathematics and Computer Science*, University of Perugia, Perugia, Italy
  - Course of *Introduzione alla Sicurezza Informatica* - SSD: INF/01 - Bachelor's degree in Computer Science
- November 2022 – **Course Tutor**, *University of Perugia*, Perugia, "vincitrice selezione pubblica comparativa per l'assegnazione di n. 16 contratti, per attività di tutorato, a.a. 2022/2023"
- February 2023 Course of *Introduzione alla Sicurezza Informatica* - SSD: INF/01 - 57 hours - Bachelor's degree in Computer Science

### Work Experience

- September 2022 - **Bando 150 ore**, *Ripartizione Sistema Informativo di Ateneo - Ufficio Sicurezza ICT*, Piazza dell'Università 1 , Perugia (PG)
- December 2022
  - Main activities and responsibilities: Security audit based on OWASP framework of the UNIPG official site
  - 150 hours
- December 2019 - March 2020 **Occasional professional services**, *Next Duepuntozero S.r.l. Società Unipersonale*, Via Italo Scotoni 37 , Cortona (AR)
  - PHP source code verification for management software and websites on the Apache, MySQL, PHP platform

## Courses and internships

- April 2023 - **Internship (Tirocinio universitario)**, *Dipartimento di Matematica e Informatica*
- May 2023 *DMI* , Via Luigi Vanvitelli, 1 , Perugia (PG)
  - Main activities and responsibilities: Study and analysis of identity management systems, in particular implemented through Self-sovereign identity.
  - Tutor: Prof. Francesco Santini
  - 75 hours
- March 2020 - **Participation to CyberChallenge.IT** , *Dipartimento di Matematica e Informatica*
- June 2020 *DMI* , Via Luigi Vanvitelli, 1 , Perugia (PG)
 

Description: *CyberChallenge.IT*, a training program for young talents between the ages of 16 and 24, is the leading Italian initiative to identify, attract, recruit and place the next generation of cybersecurity professionals. The project aims to attract young people's interest in topics of global relevance and where there is a known huge skills shortage.

  - Course duration: 72 hours
- January 2020 - April 2020 **Python programming course**, *Dipartimento di Matematica e Informatica DMI* , Via Luigi Vanvitelli, 1 , Perugia (PG)
- September 2019 - **Internship (Tirocinio universitario)**, *Next Duepuntozero S.r.l. Società Unipersonale*, Via Italo Scotoni 37 , Cortona (AR)
  - Main activities and responsibilities: Development and modification of websites
  - 150 hours
- June/July 2014 - **Tourist Information Officer**, *Ufficio Provinciale di Informazioni Turistiche*, Cortona (AR)
- June/July 2015
  - Summer internship of 1 week in 2014
  - Summer internship of 2 weeks in 2015

## Languages

Italian	Mothertongue	
English	Upper Intermediate	<i>First Certificate B2</i>
French	Upper Intermediate	<i>DELF B2</i>
Spanish	Basic	

## Publications

### Conference Papers

- [1] Stefano Bistarelli, Michele Ceccarelli, Chiara Luchini, Ivan Mercanti, and Francesco Santini. A survey of steganography tools at layers 2-4 and http. In *Proceedings of the 18th International Workshop on Frontiers in Availability, Reliability and Security*, FARES 2023, page 9, New York, NY, August 29 - September 01 2023. ACM. Accepted.
- [2] Stefano Bistarelli, Chiara Luchini, and Francesco Santini. A military idam system based on ssi and orcon. In *Proceedings of the 2023 IEEE International Workshop on Technologies for Defense and Security*, TechDefense 2023, page 6. IEEE, 20-22 November 2023. Accepted.
- [3] Stefano Bistarelli, Chiara Luchini, and Francesco Santini. A word on policy-based credential disclosure in ssi. In *5th Distributed Ledger Technology Workshop (DLT 2023)*, page 2, Bologna, Italy, May 2023. Accepted, oral communication.

## Invited Seminars and Conference Presentations

### Conference Presentation

- 2023 ○ *A discussion on VCs' storage in SSI*. 5th DLT Working Group Meeting on Multidisciplinary Aspects (DLT Workshop 2023), 20-21 December 2023, Università degli Studi di Milano-Bicocca, Milano (Italy).
- *A Survey of Steganography Tools at Layers 2-4 and HTTP*. The 18th International Workshop on Frontiers in Availability, Reliability and Security (FARES 2023), 29 Aug-01 Sept 2023, Benevento (Italy).
- *A Military IdAM System Based on SSI and ORCON*. IEEE Workshop on 2023 IEEE International Workshop on Technologies for Defense and Security (TechDefense 2023), 20-22 November 2023, Rome (Italy).
- *A Word on Policy-based Credential Disclosure in SSI (oral communication)*. 5th Distributed Ledger Technology Workshop (DLT 2023), 25-26 May, Bologna (Italy).

## Conference Participation

- 2023 ○ DLT Workshop 2023, 5th DLT Working Group Meeting on Multidisciplinary Aspects, Università degli Studi di Milano-Bicocca, Milano (Italy), 20-21 December 2023.
- TechDefense 2023, IEEE Workshop on 2023 IEEE International Workshop on Technologies for Defense and Security, Rome (Italy), 20-22 November.
- FARES 2023, The 18th International Workshop on Frontiers in Availability, Reliability and Security, Benevento (Italy), 29 Aug-01 Sept 2023.
- DLT 2023, 5th Distributed Ledger Technology Workshop, Bologna (Italy), 25-26 May 2023.

## Reviewer Activity

- WTSC 2024
- TechDefense 2023

## Personal Data

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base al D. Lgs. 196/2003, coordinato con il D. Lgs. 101/2018, e al Regolamento UE 2016/679.

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003 and the 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.