

Serenella Valiani



I'm a PhD student in Computer Science in the Systems Security Modelling and Analysis - SySMA - unit at IMT School for Advanced Studies of Lucca. I studied Mathematics at the University of Siena both at the Bachelor's and at the Master's.

I'm currently studying Multi-Agent Systems, focusing on how they can be model through formal languages based on attribute-based communication.

Education

- 2019 – ongoing IMT School for Advanced Studies of Lucca, *Lucca*
PhD in Computer Science
Systems Security Modelling and Analysis unit
Main topic. Formal languages, Process Algebra, Concurrency, Distribution, Attribute-based communication.
- 2015 – 2019 University of Siena, *Siena*
Master's Degree in Mathematics
Department of Information Engineering and Mathematics
Thesis title. Proteins classification through the integration of logical inference and machine learning.
Advisor: Prof. Michelangelo Diligenti | Final mark: 110 cum laude
- 2010 – 2014 University of Siena, *Siena*
Bachelor's Degree in Mathematics
Department of Information Engineering and Mathematics
Thesis title. Edge and facet ideals' invariants.
Advisor: Prof Cristiano Bocci | Final mark: 107

Experience

- 2021 - ongoing IMT School for Advanced Studies of Lucca, *Lucca*
Students' Representative, Quality Enhancement Committee
Main activities. Coordinates Quality Assurance activities designing the QA system and guaranteeing its correct functioning.
- 2017 – 2018 University of Siena, *Siena*
Student Tutor
Main activities. Classroom exercise of Analysis, Bright Night planning, open day at Unisi planning, tutoring activities with little groups of students.
- 2016 – 2017 University of Siena, *Siena*
Student Tutor
Main activities. Classroom exercise of Linear Algebra and Geometry, Third Mission activities planning.

Languages

Native Italian

Other: **English.** FCE Certificate. Overall level: C1

Listening: C1 | Text comprehension: C1 | Writing: C1 | Speaking: C1

German. Overall level: A1

Listening: A1 | Text comprehension: A1 | Writing: A1.1 | Speaking: A1.1

Digital skills

Basic Digital Competence Word processing: Excellent | Electronic spreadsheet: Good | Data base administrators: Good
Internet skills: Excellent | Multimedia Production: Excellent

Programming Languages Python, C/C++, Rust, Java

Software MatLab, Office pack, CADP

Operating system Linux (Arch Linux, Debian, Ubuntu), Windows