

Lucia Nasti

Curriculum Vitæ

Personal Information

Date of Birth	July 2, 1991
Nationality	Italian
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Current position

Dates: Nov 2019 – Present

Role: Postdoctoral researcher

Institution: University of Pisa

Research group: Modelling, Simulation and Verification of Biological Systems

Education and Training

2016 – 2019 **Ph.D. in Computer Science**

Institution: University of Pisa

Thesis title: *Verification of Robustness property in Chemical Reaction Networks*

Supervisors: Paolo Milazzo and Roberta Gori - University of Pisa

Relevant schools and courses:

- Biochemical Programming course (Prof. François Fages - INRIA Institute), 10 Jan - 20 Feb 2019
- Lipari Summer School on Computational Drug Science and High-Precision Medicine, 9 - 15 Jul 2017
- Bertinoro International Spring School, 5 - 10 Mar 2017
- Introduction to Network Science (Prof. Janos Kertesz - Central European University, Budapest), 24 Jan - 22 Feb 2017

Other activity: Ph.D. representative in Ph.D. council, Nov 2017 - Nov 2019

Oct 2016 **Master's Degree in Digital Humanities**

Institution: University of Pisa

Thesis title: *Modelling and Simulation of the Dopaminergic System in addiction context. The case of Internet addiction*

Supervisors: Paolo Milazzo - University of Pisa, Gerald Moore - Durham University (UK)

Final grade: 110/110 summa cum laude

Erasmus+ Exchange Program

Dates: January 2016 – June 2016

Institution: Durham University (UK)

Supervisor: Gerald Moore

Principal studies: Preliminary research and data analysis about Internet addiction useful for Master's Degree dissertation.

Internship at Canadian Embassy (Rome, Italy)

Dates: Jul 2015 – Nov 2015

Responsibilities: *Data analysis, press office*

Nov 2013 **Bachelor's Degree in Journalism**

Institution: University of Salerno

Thesis title: *Tradurre i silenzi del mondo. I reportage di Emanuela Zuccalà*

Supervisor: Franco Salerno

Final grade: 110/110 summa cum laude

Visiting Research

Dates: Mar 2019 – Jun 2019

Institution: Max Planck Institute of Molecular Cell Biology and Genetics, Dresden

Supervisor: Christoph Zechner

Dates: Nov 2018 – Mar 2019

Institution: INRIA Institute, Palaiseau – France

Supervisor: François Fages

Teaching activities

Co-Supervisor – Bachelor Degree in Computer Science: Student: Mariagiovanna Rotundo. Topic: Implementation of a Python tool to analyze topological properties of biological models, January 2020 - present

Courses:

- Teaching assistant – Logic for Programming Bachelor's course, September 2019 - December 2019
- Teaching assistant – Logic for Programming Bachelor's course, September 2018 - December 2018
- Teaching assistant – Algorithms and Programming Bachelor's course, March 2018 - June 2018

Organized workshops

- The 2nd Ph.D. Event in Computer Science, 6 December 2019, University of Pisa
- The 1st Ph.D. Event in Computer Science, 1 February 2019, University of Pisa
- 1st Informal Workshop on DataMod Approaches to Systems Analysis (WDA 2018), 1 - 2 Mar 2018, University of Pisa

Skills

Language

Italian Mother tongue
English Fluent, both spoken and written

Computational

OS Linux, Mac OS, Windows
Programming Python, C, Java, JavaScript, HTML, CSS, XML, SBML
Softwares MATLAB, GNU Octave
Editing \LaTeX

References

Paolo Milazzo, Assistant Professor at University of Pisa, ✉ milazzo@di.unipi.it

Christoph Zechner, Group Leader at Max Planck Institute of Molecular Cell Biology and Genetics (Dresden), ✉ zechner@mpi-cbg.de

Publications

Nasti L., Gori R., and Milazzo P. The absolute and relative initial concentration Robustness property. *In preparation*.

Nasti L., Michienzi A., and Guidi B. Discovering Internet addiction in real social networks. *In preparation*.

Nasti L. and Zechner C. Verification and analysis of Robustness in Becker-Döring equations. *In preparation*.

Barbuti R., Gori R., Milazzo P., and **Nasti L.** A survey of gene regulatory networks modelling methods: from ODEs, to Boolean and bioinspired models. *Submitted to Membrane Computing*.

Nasti L., Gori R., Milazzo P., and Poloni F. Efficient Analysis of Chemical Reaction Networks Dynamics based on Input-Output Monotonicity. *Submitted to Bioinformatics*.

Gori R., Milazzo P., and **Nasti L.** Towards an efficient verification method for monotonicity properties of chemical reaction networks. In *10th International conference on bioinformatics models, methods and algorithms (BIOINFORMATICS 2019)*, 2019.

Nasti L., Gori R., and Milazzo P. Formalizing a notion of concentration robustness for biochemical networks. In *Federation of International Conferences on Software Technologies: Applications and Foundations*, pages 81–97. Springer, 2018.

Nasti L. and Milazzo P. A hybrid automata model of social networking addiction. *Journal of Logical and Algebraic Methods in Programming*, 100:215–229, 2018.

Nasti L. and Milazzo P. A computational model of internet addiction phenomena in social networks. In *International Conference on Software Engineering and Formal Methods*, pages 86–100. Springer, 2017.