

Luca Di Stefano

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WORK EXPERIENCE

IMT LUCCA GRANT HOLDER

Dec 2019 – Present time
Lucca, IT

Research project grant in
“Verification of Emerging Properties
in Collective Adaptive Systems”.

THALES ALENIA SPACE

WORKSHOP PLANNING INTERN

Jun 2015 – Feb 2016
L'Aquila, IT

Maintenance of legacy traceability
systems; development of in-house
client applications (SQL Server, VBA).

AUBAY RESEARCH & TECHNOLOGIES INTERN

Dec 2013 – Feb 2014 • Carsoli, IT

Bachelor's thesis project. Design of
a digital publishing platform with a
cross-platform mobile client (C#,
ASP.NET, Windows Communication
Foundation, Java, Xamarin).

VOLUNTEERING

ASSOCIAZIONE ITALIANA GUIDE E SCOUTS D'EUROPA CATTOLICI

January 2015 – Present time

Development and deployment of
web applications (C#, ASP.Net, SQL
Server, PHP, JavaScript, Azure).

PROGRAMMING

Proficient:

Python • C# • F# • Java • \LaTeX

Competent:

C • C++ • Javascript • T-SQL
Matlab • Bash • Erlang

Familiar:

OCaml • PHP • Prolog • VHDL

CERTIFICATIONS

- 2015 Cisco CCNA Routing and
Switching: Introduction to
Networks
- 2010 Cambridge First Certificate in
English (FCE). Pass with merit

PUBLICATIONS (DBLP: 215/9758, ORCID iD: 0000-0003-1922-3151)

- Luca Di Stefano, Frédéric Lang, and Wendelin Serwe. Combining Sliver with CADP to analyze multi-agent systems. In COORDINATION, 2020 (to appear).
- Rocco De Nicola, Luca Di Stefano, and Omar Inverso. Multi-agent systems with virtual stigmergy. Sci. Comput. Program., 187, 2020.
- Rocco De Nicola, Luca Di Stefano, and Omar Inverso. Toward Formal Models and Languages for Verifiable Multi-Robot Systems. Front. Robot. AI, 5, 2018.
- Rocco De Nicola, Luca Di Stefano, and Omar Inverso. Multi-agent Systems with Virtual Stigmergy. In STAF 2018 - Collocated Workshops, Revised Selected Papers, 2018.

EDUCATION

INRIA VISITING PHD STUDENT

Mar – Jul 2019 • Grenoble, FR

- Encoding of multi-agent systems in the LNT specification language
- Verification of multi-agent systems through model checking (CADP)

1ST VMCAI WINTER SCHOOL ATTENDEE

Jan 2019 • Lisbon, PT

- Computing with SAT oracles
- Abstract interpretation
- Modeling and verification of distributed protocols

GRAN SASSO SCIENCE INSTITUTE PHD IN COMPUTER SCIENCE

Oct 2016 – Present time • L'Aquila, IT

- Languages and process algebras for the specification and verification of reactive systems
- Semantics of programming languages
- Model checking and software verification

Other activities: student representative in the academic senate (2018–2020)

UNIVERSITY OF L'AQUILA

MS IN COMPUTER SCIENCE AND SYSTEMS ENGINEERING, CUM LAUDE

Mar 2014 – Oct 2016 • L'Aquila, IT

- Control Theory
- Communication networks
- Spatial information theory
- Embedded systems

BS IN COMPUTER SCIENCE AND SYSTEMS ENGINEERING

Oct 2010 – Mar 2014 • L'Aquila, IT

SOFTWARE PROJECTS

- SLIVER: a tool to verify multi-agent systems with stigmergic interaction by reduction to sequential imperative programs (Python, F#). Code partially available on **GitHub**.
- An open-source toolchain to synthesize garbled circuits from Python specifications (Python, Yosys, TinyGarble). Assignment for a Cryptography and Security course at GSSI. Code available on **GitHub**.
- A computer vision algorithm for goal-oriented obstacle avoidance (Python, OpenCV, V-REP). Master's thesis project; presented as a poster at COSIT2017. Code available on **GitHub**.