

Luca Di Stefano

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WORK EXPERIENCE

THALES ALENIA SPACE

WORKSHOP PLANNING INTERN
June 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)

- Rocco De Nicola, Luca Di Stefano, and Omar Inverso. Multi-agent Systems with Virtual Stigmergy. To appear in Sci. Comput. Program.
- 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

March – July 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

January 2019 • Lisbon, PT

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

GRAN SASSO SCIENCE INSTITUTE PHD IN COMPUTER SCIENCE

October 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

UNIVERSITY OF L'AQUILA

MS IN COMPUTER SCIENCE AND SYSTEMS ENGINEERING, CUM LAUDE

Oct 2016 • L'Aquila, IT

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

BS IN COMPUTER SCIENCE AND SYSTEMS ENGINEERING

Mar 2014 • L'Aquila, IT

SOFTWARE PROJECTS

- A tool to verify multi-agent systems with stigmergic interaction. The tool transforms a multi-agent system specification into a sequential imperative program, which can be verified with any off-the-shelf tool for program analysis in the target language (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**.