



Carmine Spagnuolo

Ph.D Student Computer Science



Avellino (Italy), 15 March 1986



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About me

I got my Master Degree cum laude in Computer Science from the Università degli Studi di Salerno in 2013. In January 2014 I started the Ph.D. program in Computer Science, under the supervision of prof. Vittorio Scarano and Gennaro Cordasco. I worked on a framework for Distributed Agent-Based Simulation in Java which led to simulate billion of agents in a heterogeneous systems. In the last year I wrote my ideal curriculum by implementing LaTeX template which led to read the curriculum in about twenty seconds (about 70 * and 25 forks on [GitHub](#) ☺). In 2012 I received a grant for visiting the Center for Social Complexity of the George Mason University. In May 2017 and from October to December 2017 I was in visit to University of Chicago and Argonne National Laboratory (ANL) exploiting a grant from ANL.

Skill

Java



C



HPC (e.g. MPI, OpenCL, OpenMP, CUDA)



J2EE



Web and Mobile



R*4 Go*3 Python*4 Bash*4.5

Android*5.5 English

speaking-writing*3.5 English

reading*5

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

interests

Parallel Computing, Distributed Systems, Graph Theory, Social Networks and Agent-Based Simulation.

education

since 2014 Ph.D. candidate in Computer Science – expected April 2017 University of Salerno
Scalable Computational Science. Advisor prof. Vittorio Scarano.

2011-2013 M.Sc. magna cum laude University of Salerno
Communication strategies in distributed agent-based simulations: D-MASON. Advisor prof. Vittorio Scarano. [full marks and honour] GPA 3.82

2007-2011 B.Sc. University of Salerno
A framework for Parallel and Distributed Agent-Bsed Simulation: D-MASON. Advisor prof. Vittorio Scarano.

publications

- 2016 A Scalable Data Web Visualization Architecture. [PDP'17](#) Parallel, Distributed, and Network-Based Processing conference.
- 2016 From desktop to large-scale model exploration with Swift/T. [WSC'16](#) Proceedings of the 2016 Winter Simulation Conference.
- 2016 D-Mason on the Cloud: an Experience with Amazon Web Services. [PADABS'16](#) workshop of Euro-Par 2016 conference.
- 2016 Toward the new version of D-MASON: Efficiency, Effectiveness and Correctness in Parallel and Distributed Agent-based Simulations. [ParSocial'16](#) IEEE Workshop on Parallel and Distributed Processing for Computational Social Systems of [IPDPS'16](#).
- 2016 SOF: Zero Configuration Simulation Optimization Framework on the Cloud. [PDP'16](#) Parallel, Distributed, and Network-Based Processing conference.
- 2015 On Evaluating Graph Partitioning Algorithms for Distributed Agent Based Models on Networks. [PADABS'15](#) workshop of Euro-Par 2015 conference.
- 2015 Distributed Agent-based Simulation and GIS: An Experiment With the dynamics of Social Norms. [PADABS'15](#) workshop of Euro-Par 2015 conference.
- 2014 Exploiting D-MASON on Parallel Platforms: A Novel Communication Strategy. [PADABS'14](#) workshop, Springer International Publishing, Euro-Par 2014: Parallel Processing Workshops.
- 2013 Bringing together efficiency and effectiveness in distributed simulations: the experience with D-MASON. [SIMULATION](#): Transactions of The Society for Modeling and Simulation International.
- 2013 Communication strategies in Distributed Agent-Based Simulations: the experience with D-MASON. [PADABS'13](#) workshop, Springer Berlin Heidelberg, Euro-Par 2013: Parallel Processing Workshops.
- 2013 Designing Computational Steering Facilities for Distributed Agent Based Simulations. [SIGSIM-PADS'13](#), ACM SIGSIM Conference on Principles of Advanced Discrete Simulation.
- 2011 A Framework for distributing Agent-based simulations. [HeteroPar'11](#) workshop, Springer Berlin Heidelberg, Euro-Par 2011: Parallel Processing Workshops.

schools

2015 [15th International School on Formal Methods for the Design of Computer, Communication and Software Systems: Multicore Programming](#) Centro Residenziale Universitario Bertinoro

2014 [23rd Summer School on Parallel Computing](#) SCAI,CINECA

teaching

2015 Business Informatic course: Object Oriented design, Design Patterns in Java and J2EE. [UIIP program](#), Biogem Campus

2014-2015 Tutoring activities for courses: C Programming course, Parallel and Concurrent Programming, Distributed Programming and Programming on networks. University of Salerno

links

[Google Scholar \(full publications list\)](#), [Research Gate](#), [LinkedIn](#), [GitHub](#), [Sparkie Android Application](#).