



# Alessia Antelmi

Student

If I have to choose one adjective to describe myself I would say definitively *curious*. I have always loved learning new things in different fields; in effect, I believe that the curiosity and the passion in the things you do move the world. Then, one day, Computer Science has become part of my life and all changed. The fact that it is used in so different areas fascinates me so much: CS is not only a science, but a way to see and think!

*Per aspera sic itur ad astra.*

*Seneca,  
Hercules Furens*

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## IT Skills

### Optimum

Java PHP HTML5 CSS3 XML MySQL

### Good

JavaScript C OpenMPI AndroidSDK LaTeX

### Discrete

JavaEE Python PigLatin MATLAB R

## Framework and Tools

Eclipse Slack Bootstrap Gephi Git Wordpress

## Education

since 2015 Master's degree in Computer Science, Networks and Software Technologies. University of Salerno.

Topics that have interested me particularly: concurrent, parallel and distributed systems, integration of structured and unstructured web data, advanced algorithmic and AI techniques, software project management, bioinformatics.

2012-2015 Bachelor's degree in Computer Science, University of Salerno.

110/110 cum laude

Topics that have interested me particularly: algorithms, OO programming, web development, distributed computing.

## Work experiences

ongoing Tutoring activities.  
Learning support for guys with disabilities.

Feb-May 2016 Mentor Scratch Bimed.  
Support activities for tutors during their teaching of the block language Scratch in primary and secondary schools.

## Languages

Italian Mother tongue

English Writing C1  
Understanding C1  
Speaking B2

*self-assessment based on*

*[www.britishcouncil.mk/sites/default/files/self\\_assessment\\_grid.pdf](http://www.britishcouncil.mk/sites/default/files/self_assessment_grid.pdf)*

## Communicative skills

I owe the acquisition of skills in presenting technical works to my university career. In fact, during the training period done in *ISISLab* laboratory at the University of Salerno it is usual to hold seminars in order to present your work to a qualified staff.

Moreover, having played in a team sport (volleyball) for about eight years allowed me to learn how to relate with people of different ages and characterial nature.

## Organizational and management skills

Since I was a child, the sport of volleyball has helped me to understand the value of teamwork and the importance of motivate, in every circumstance, your own team mate.

Furthermore, in collaboration with a university colleague, I was responsible for a team of 8 people for a university project, which aimed to gain expertise on software project management. We both played the role of Project Manager and Quality Manager.

## Professional skills

My many university projects allowed me to develop not only technical skills, but also management ones, learning to manage the available time in the best way and to dialogue with several stakeholders.

Since my second university year, I dealt with the challenges of distributed, concurrent and parallel computing, learning and using computational frameworks as MapReduce and Fork-Join. For what concerns web programming, I improved my skills during the production of a web application for data integration from different sources, using scraping and data warehousing techniques.

Actually, with some university colleagues, I am working on a data science project, consisting in analysis of big data for a well-known problem in marketing, to which customers give a promotional coupon and when.

## IT skills - Projects

- Sept. 2015 *Distributed simulation on networks: analysis and development of partitioning strategies in D-MASON.*  
*Analysis and development of partitioning strategies of complex networks in the context of agent based simulation, in order to ensure load balancing.*  
[github.com/isislab-unisa/dmason](https://github.com/isislab-unisa/dmason)
- Dec. 2015 *Ami, MoodInjection.*  
Study of the propagation of information in Twitter. The first case of study has arisen as a result of the attack in Paris the 11/13/2015 as an analysis of the correspondence between real and virtual life through the social network. The second case of study has been the evolution of situations and deduction of events using sentiment analysis applied to the talent show X Factor.
- Dec. 2015 *WorldSensitive.*  
Web integration system for the cultural and ecological education, through a collection of mini-games, each one related to a field of knowledge.
- Dec. 2015 *UNISATripBoard.*  
Project Manager of a project concerning the creation of a web system aimed at simplifying the interaction between student and tutor and relative to the support of teachers in the management of mobility contracts in the field of the Erasmus+ project.  
[www.unisatripboard.altervista.org](http://www.unisatripboard.altervista.org)
- July 2016 *Game of life - DMASON*  
Implementation of the simulation *Game of Life* in D-MASON, in order to verify the correctness of the entire simulation framework.  
[github.com/isislab-unisa/dmason](https://github.com/isislab-unisa/dmason)

## Related experiences

During Giffoni Film Festival 2015, I took part in the *Laboratory Innovation Hub* as junior mentor. My task was to lead groups of children, aged between 7 and 12 years, to the realization of their first program in Scratch. During the same event, I worked with the founders of *Tinkidoo* in laboratories for baby-programming for children aged between 3 and 6.

Thanks to this experience, I began to participate as a volunteer to the management of workshops organized in order to bring the girls near to the scientific world and, above all, to that of computer science.

## Publications

- 2015 A. Antelmi, G. Cordasco, C. Spagnuolo, L. Vicidomini, *On evaluating graph partitioning algorithms for distributed Agent Based Models on Networks*. In proceedings, edited by Springer-Verlag, of the 3rd Wkshp on Parallel and Distributed Agent-Based Simulation (PADABS, a satellite workshop of EURO-PAR).

## Interests and Hobbies

In my free time I love reading up on the scientific and technological innovations, especially with regard to astronomy. Topics such as the Roman and Greek history have always fascinated me. I practice sports like zumba and pilates every day and, when possible, volleyball.