

Mara Sorella

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EDUCATION **Sapienza, University of Rome**, Rome, Italy Nov, 2013 —
Ph.D. Student in Engineering in Computer Science
• Advisor: Aris Anagnostopoulos

Sapienza, University of Rome, Rome, Italy Oct, 2010 - Jul, 2013
MSc., Engineering in Computer Science
• Thesis: “Understanding (Mis)information Spreading for Improving Corporate Network Trustworthiness”
• Advisor: Roberto Baldoni
• Grade: full marks with honors

Sapienza, University of Rome, Rome, Italy Oct, 2005 - Sep, 2010
BSc., Engineering in Computer Science

REFERENCES

Prof. Aris Anagnostopoulos

Department of Computer, Control, and
Management Engineering Antonio Ruberti
Sapienza University of Rome
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Prof. Roberto Baldoni

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Management Engineering Antonio Ruberti
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Nedim Lipka, Sr. Research Scientist

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RESEARCH STATEMENT

My research focus is on modeling and mining dynamic processes on large-scale social and information networks: my investigation lies on the interface of computational methods and social theories, combining them to analyze effectively social media data, enabling to study human behavioural processes that have an impact on the structure, evolution and lifecycle of social networks. In particular, topics of primary interest are: information diffusion, influence analysis, link formation, event detection, network inference. Other interests: user modeling, spatio/temporal urban mining, advertising, recommender systems, dynamic graph visualization, and distributed computing.

HONORS AND AWARDS

Microsoft Azure Research Award “*Online Event Detection and Evolution Tracking in Activity Networks*” (20K\$), May 2016.

Telecom Big Data Challenge 2014 (Data Analytics track) “*COLITA: Collaborative Interest-Driven Targeted Advertising*”, finalist project, April 2014.

GRANTS AND
SCHOLARSHIPS

AAAI Student Grant Award for the 10th International Conference on Web and Social Media (ICWSM 2016), May 2016

Student Volunteer Grant for the 24th World Wide Web Conference (WWW 2015), May 2015.

Three-years PhD Scholarship from the Department of Computer, Control, and Management Engineering Antonio Ruberti at Sapienza University of Rome, November 2013.

Scholarship (collaboration grant) from the Department of Computer, Control, and Management Engineering Antonio Ruberti at Sapienza University of Rome. Tasks: network administration, maintenance and management of the internal node of the grid computing platform PlanetLab; configuration and deployment of wireless network devices of the "Sapienza Wireless" network of the department. 2010.

Scholarship (collaboration grant) from Sapienza University of Rome (Computer Science Laboratory "Paolo Ercoli"). Primary tasks: hardware/software support and UNIX system administrator. 2008-2009.

PUBLICATIONS

A. Anagnostopoulos, F. Petroni, M. Sorella:
Targeted Interest-Driven Advertising in Cities Using Twitter.
Proc. of the 10th International Conference on Web and Social Media (ICWSM), 2016

A. Anagnostopoulos, M. Sorella:
Learning a Macroscopic Model of Cultural Dynamics
Proc. of the 17th IEEE International Conference on Data Mining (ICDM), 2015

A. Anagnostopoulos, F. Petroni, M. Sorella:
COLITA: Collaborative Interest-Driven Targeted Advertising.
1st International Conference on Computational Social Science (ICSSS), 2015 (extended abstract)

R. Baldoni, S. Bonomi, G.A. Di Luna, L. Montanari, and M. Sorella **Understanding (Mis)Information Spreading for Improving Corporate Network Trustworthiness**
Proc. of the 14th European Workshop on Distributed Computing (EWDC), 2013 [Dependable Computing, LNCS Vol. 7869]

SCIENTIFIC EVENTS

10th AAAI International Conference on Web and Social Media (ICWSM 2016)
Cologne, Germany. May 17-20, 2016 - as a presenter.

15th IEEE International Conference on Data Mining (ICDM 2015)
Atlantic City, NJ, US. November 14-17, 2015 - as a presenter.

ECML/PKDD Summer school on Data Sciences for Big Data - Resource Aware Data Mining
Porto, Portugal. September 7-11, 2015 - as an attendee.

1st International Conference on Computational Social Science (ICSSS 2015)
Helsinki, Finland. June 8-11, 2015 - as a presenter.

24th World Wide Web Conference (WWW 2015)

Florence, Italy. May 18-22, 2015 - as a student volunteer and attendee.

J.T. Schwartz International School for Scientific Research on Modeling Spatio-Temporal Reasoning in Complex Social Systems

Lipari (ME), Italy. July 20-26, 2014 - as an attendee.

Telecom Big Data Challenge (ICT Days 2014)

Trento, Italy. April 2-4, 2014 - as a presenter.

16th International Conference on Principles Of Distributed Systems

OPODIS, Rome, Italy. December 17-20, 2012 - as an attendee.

INVOLVEMENT IN RESEARCH PROJECTS **TENACE: Protecting National Critical Infrastructures from Cyber Threats.**
funded by the Italian Ministry of Education, University and Research under the PRIN program, 2013-2014.

ACADEMIC SERVICE **PC Member** *Workshop on Social Influence (SI), 2016*
Reviewer *Journal of Social Network Analysis and Mining (SNAM), 2015*
Sub-reviewer *CIKM 2014, ECML-PKDD 2014, SDM 2015, ECML-PKDD 2016, ASONAM 2016*

TEACHING EXPERIENCE Guest lecturer for the course “Design of Web-based Systems” at the faculty of “Languages in the information society” of the University of Rome “Tor Vergata” (Second semester, 2011 and 2014)

Teaching assistant for the course “Foundations of Computer Science I” at the Faculty of Engineering in Computer Science, Sapienza University of Rome (First term, 2009).

WORK EXPERIENCE Data Scientist Intern – Adobe Systems, San Jose (CA) **Aug – Dec, 2016**

SOFTWARE AND PROJECTS My GitHub profile: <https://github.com/maruscia>
A complete list of projects can be found at <http://www.dis.uniroma1.it/~sorella>.

SKILLS AND ABILITIES

- Programming: Python, Java, Ruby, C, Javascript, Objective-C, NetLogo, Scala, Bash, R, SQL.
- Distributed Frameworks and Document Repositories: Apache Hadoop, Storm, monogodb, redis, hbase.
- Other scientific tools: Gephi, MATLAB, Weka.
- Operating Systems: Unix/Linux, OS X, Windows.
- Languages: Italian (native), English (fluent), French (beginner), Spanish (beginner).

OTHER I actively contribute since 2008 to the activities and the coordination of the italian Wireless Network Community Ninux.org.

Owning an Apple Developer Certificate issued by Apple for the years 2010-2013, I developed some mobile applications for the iOS platform available on the App Store.

I developed good communication and teamworking skills thanks to the experience of active contribution from 2006 to 2009 to the italian community of the Debian GNU/Linux

operating system, and of the Ubuntu operating system, as a member of the groups package maintaining & testing and internationalization, documentation, and promotion.