

Gabriele Russo Russo

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Personal information

Birthdate: January 17, 1992

Birthplace: Avellino, Italy

Nationality: Italian

Gender: Male

Education

2017–today **PhD student in Computer Science, Control and Geoinformation** at University of Rome Tor Vergata. Winner of a grant financed by the Italian Ministry for Education, University, and Scientific Research.

Advisors: Prof. Valeria Cardellini, and Prof. Francesco Lo Presti.

2014–2017 **Laurea Magistrale (MSc equivalent) in Computer Engineering *cum laude*** at University of Rome Tor Vergata.

Thesis: “Optimal Deployment and Run-Time Reconfiguration for Data Stream Processing”.

Advisors: Prof. Valeria Cardellini and Prof. Francesco Lo Presti.

2011–2014 **Laurea (BSc equivalent) in Computer Engineering *cum laude*** at University of Rome Tor Vergata.

Thesis: “Analysis and Implementation of Energy-Aware Routing Algorithms for Ad-Hoc Wireless Networks”. *Advisor:* Prof. Francesco Lo Presti.

2006–2011 **High school Diploma** at *Liceo Classico “Leoniano”*, Anagni, 100/100 cum laude.

Summer schools and Symposiums.....

2018 Symposium “Being human with algorithms”, organized by the German ACM Chapter. Heidelberg, September 2018. I won a grant sponsored by ACM CECL.

2018 “Advanced Course on Data Science & Machine Learning” (ACDL), Siena, Italy. July 2018.

2017 Summer School on “Optimization, Big Data and Applications” (OBA), Veroli, Italy. July 2017. I also took part in the OBA Award session, presenting my current research activity.

2017 International Summer School on “Latency Control for Internet of Services” organized by COST Action 1304 *Autonomous Control for a Reliable Internet of Services* (ACROSS), Karlstad, Sweden, June 2017. I won a student travel grant for attending the school, where I presented a poster entitled “Optimal Placement and Replication for Elastic Distributed Data Stream Processing”.

Awards

2011 Alfieri del Lavoro, awarded by Italian President Giorgio Napolitano and *Federazione Nazionale Cavalieri del Lavoro*.

Included in the list of 25 Italian students completing high school with the highest grades during the previous five years.

Teaching activities

2018/2019 Teaching assistant for *Computer Architectures* course, taught by Prof. Valeria Cardellini and Prof. Francesco Lo Presti at University of Rome Tor Vergata.

2017/2018 Teaching assistant for *Computer Architectures* course, taught by Prof. Salvatore Tucci at University of Rome Tor Vergata.

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Publications

International Journals.....

J3: G. Russo Russo, M. Nardelli, V. Cardellini, F. Lo Presti, "Multi-Level Elasticity for Wide-Area Data Streaming Systems: A Reinforcement Learning Approach", *Algorithms*, vol. 11(9).

J2: V. Cardellini, F. Lo Presti, M. Nardelli, G. Russo Russo, "Decentralized self-adaptation policies for elastic data stream processing", *Future Generation Computer Systems*, vol. 87, pp. 171–185.

J1: V. Cardellini, F. Lo Presti, M. Nardelli, G. Russo Russo, "Optimal operator deployment and replication for elastic distributed data stream processing", *Concurrency Computat: Pract Exper.* 2017;e4334. DOI: 10.1002/cpe.4334

International Conferences and Workshops.....

C4: M. Nardelli, G. Russo Russo, V. Cardellini, F. Lo Presti, "A Multi-level Elasticity Framework for Distributed Data Stream Processing", *International Workshop on Autonomic Solutions for Parallel and Distributed Data Stream Processing (Auto-DaSP 2018)*, in conjunction with Euro-Par 2018, Turin, Italy, August 2018. Published in *Euro-Par 2018: Parallel Processing Workshops*. To appear.

C3: G. Russo Russo, "Towards Decentralized Auto-Scaling Policies for Data Stream Processing Applications", *Proceedings of 10th ZEUS Workshop (ZEUS 2018)*, Dresden, Germany, February 2018. CEUR-WS.org/Vol-2072.

C2: V. Cardellini, F. Lo Presti, M. Nardelli, G. Russo Russo, "Auto-scaling in Data Stream Processing: a Model Based Reinforcement Learning Approach", *Proceedings of InfQ 2017 - New Frontiers in Quantitative Methods in Informatics (in conjunction with ValueTools 2017)*, Communications in Computer and Information Science Vol. 825, Springer, to appear in 2018.

C1: V. Cardellini, F. Lo Presti, M. Nardelli, G. Russo Russo, "Towards Hierarchical Autonomous Control for Elastic Data Stream Processing in the Fog" *Proceedings of Autonomic Solutions for Parallel and Distributed Data Stream Processing (AutoDASP 2017)* (in conjunction with

Euro-Par 2017), Santiago de Compostela, Spain, August 2017. https://doi.org/10.1007/978-3-319-75178-8_9

Anagni, September 25, 2018