

Curriculum Vitae — Gianlorenzo D’Angelo

November 5, 2025

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1 Biographical notes

Date and place of birth : 21 February 1981, L'Aquila
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DBLP : <https://dblp.org/pid/66/465.html>

2 Relevance of my profile for the position in the call for applications

My profile perfectly matches the position described in the call for applications.

- My research mainly focuses on autonomous distributed systems with a particular emphasis on analyzing the computational complexity of problems and algorithms, as well as designing, analyzing, and evaluating approximation algorithms for computationally intractable problems.
- I have supervised several Ph.D. students and postdoctoral researchers, many of whom have gone on to establish successful careers in academia and industry. Several now hold positions as associate or tenured assistant professors and have received awards for their doctoral theses or research publications. Under my supervision, all students and postdocs have published in leading journals and conferences within their respective fields, including 24 papers in Scimago Q1 journals or Core A* venues, and 11 papers in Core A conferences. In total, I have co-authored 72 publications with my mentees, 32 of which were written exclusively with them.
- I coordinate a research group at GSSI focused on approximation algorithms, graph and network algorithms, complex network analysis, combinatorial optimization, and algorithm engineering. The group has successfully trained several Ph.D. students. I secured funding through competitive calls, supporting both doctoral and postdoctoral researchers.

In the following sections, I provide a detailed description of my scientific and teaching contributions. For a summary and key metrics, please refer to Section 9.

3 Awards and honors

Selected with a score of A for the final phase of **ERC Starting Grant 2017**.

Italian National Qualification (Abilitazione Scientifica Nazionale, ASN) as Full Professor in:

- Computer Science (**01/INFO-01 – 01/B1** – Informatica), 23/11/2020 (ASN2018);
- Computer Engineering (**09/IINF-05 – 09/H1** – Sistemi di elaborazione delle informazioni), 26/7/2018 (ASN2016).

EATCS Award for Best Italian Young Researcher in Theoretical Computer Science. Italian Chapter of the EATCS (European Association for Theoretical Computer Science), 2016.

Distinguished Senior PC member at the 24th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2025) and Distinguished PC member at 32th International Joint Conference on Artificial Intelligence (IJCAI 2023).

Best Paper Award at 18th International Symposium on Algorithmics of Wireless Networks (ALGOSENSORS 2022).

Awards by supervised Ph.D. students and post-docs.

- Y. Velaj received the 2018 Women@McKinsey Dissertation Award for her Ph.D. thesis;
- Y. Velaj received the best student paper award at the 26th SIGKDD Conference On Knowledge Discovery And Data Mining (KDD 2021);
- C. Vinci received the 2023 EATCS Award for Best Italian Young Researcher in Theoretical Computer Science;
- Y. Velaj obtained the Italian National qualification (ASN) as Associate Professor in Computer Science and in Computer Engineering.
- F. Corò obtained the Italian National qualification (ASN) as Associate Professor in Computer Science and in Operation Research.
- M. Rossi received the best student paper award at the 28th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2021);
- M. Rossi received the best student paper award at the 18th International Symposium on Algorithmics of Wireless Networks (ALGOSENSORS 2022).

4 Previous positions

From May 2020: Associate Professor at Gran Sasso Science Institute (GSSI), L'Aquila, Italy.

May 2017 – April 2020: Assistant Professor (Tenure track, art. 24, comma 3, lettera b, Legge 240/2010) at Gran Sasso Science Institute (GSSI), L'Aquila, Italy.

April 2014 – March 2017: Post-doc at Gran Sasso Science Institute (GSSI), L'Aquila, Italy.

November 2013 – March 2014: Post-doc in the Department of Informatics of the University of Pisa, Italy.

October 2012 – September 2013: Post-doc in the Department of Mathematics and Informatics of the University of Perugia, Italy.

September 2011 – November 2012: Post-doc in the MASCOTTE Team-Project, Institut national de recherche en informatique et en automatique (INRIA), Sophia-Antipolis, France.

April 2010 – March 2011 and June 2011 – August 2011 : Post-doc in the Department of Electrical and Information Engineering of the University of L'Aquila, Italy.

April 2008 – May 2008: Visiting researcher in the Institute for Theoretical Computer Science of Universität Karlsruhe (TH), Germany under the supervision of Prof. Dr. Dorothea Wagner.

August 2007 – November 2007: Visiting researcher in the Institute for Theoretical Computer Science of Universität Karlsruhe (TH), Germany under the supervision of Prof. Dr. Dorothea Wagner.

November 2006 – March 2010: Ph.D. student at the Department of Electrical and Information Engineering of the University of L'Aquila, Italy.

Research visits

August 2025: Faculty of Computer Science and the Department of German Studies of the University of Vienna, Austria.

April – May 2024: Institut de Recherche en Informatique Fondamentale (IRIF), Université Paris Cité and CNRS, Paris, France.

September 2023: Department of Business Development and Technology, Aarhus University, Herning, Denmark.

April 2023: Laboratoire Bordelais de Recherche en Informatique (LABRI), INRIA, CNRS, and University of Bordeaux, Bordeaux, France.

February 2018: Department of Business Development and Technology, Aarhus University, Herning, Denmark.

April 2016: the Institut de Recherche en Informatique Fondamentale (IRIF), Université Paris Cité and CNRS, Paris, France.

October 2015: COATI Team-Project, Institut national de recherche en informatique et en automatique (INRIA), Sophia-Antipolis, France.

September 2013: COATI Team-Project, Institut national de recherche en informatique et en automatique (INRIA), Sophia-Antipolis, France.

5 Education

Ph.D. in Electrical and Information Engineering (curriculum “Sistemi di elaborazione dell’informazione, sistemi e reti di telecomunicazioni”). Department of Electrical and Information Engineering, University of L’Aquila (Italy). March 2010. Dissertation: *Robust and dynamic algorithms for network optimization problems* (advisor Prof. Daniele Frigioni).

License for Professional Engineer (Information Engineering), October 2006.

M.Sc., Computer Engineering (Laurea specialistica in Ingegneria Informatica e Automatica). Rating: 110/110 cum laude and hors (lode e menzione di elogio). University of L’Aquila (Italy). April 2006. Dissertation: *Dynamic Algorithms for Shortest Paths Problems in a Distributed Environment* (advisor Prof. Daniele Frigioni).

B.Sc., Computer Engineering (Laurea in Ingegneria Informatica e Automatica). Rating: 110/110 cum laude. University of L’Aquila (Italy). February 2004. Dissertation: *Progetto e sviluppo di un sistema software basato sul web per la gestione di documentazione di progetto. Design.* (advisor Prof. Serafino Cicerone).

High School Degree: *Perito Industriale in Informatica*, ITIS L’Aquila (Italy) 2000.

6 Scientific activity

My research focuses on designing and analyzing efficient algorithms for computationally hard problems and covers several aspects of approximation algorithms, distributed autonomous systems, network analysis, computational complexity, distributed computing, graph algorithms, scheduling, combinatorial optimization, robust optimization, and algorithm engineering. My research methodology is characterized by both rigorous theoretical analysis of algorithms and extensive experimental studies to assess the performance of algorithms in real-world scenarios and their practical applicability. I worked on diverse topics of algorithmics, which required me to learn and develop new and diverse techniques and tools.

While the primary focus of my research is on the design and analysis of algorithms, I am also involved in different research communities, namely Artificial Intelligence (AI), Data Mining (DM), and Real-Time

Systems (RTS), where I have successfully applied my skills and knowledge on algorithms to different contexts. My publication record and participation in the program committees of the main conferences in these areas demonstrate my active involvement in these communities. Indeed, I served in the program committees and published my research in top journals and conferences of these areas, including J. ACM, ICALP, ESA for algorithms; Art. Int. J., JAIR, AAI, IJCAI, AAMAS for AI; ACM TKDD, KDD, CIKM, SDM, PAKDD for DM; and IEEE Trans. on Computers and ECRTS for RTS. The impact of my research on these communities is shown by the high number of citations that my papers have received and by the fact that some of the algorithms I developed have been implemented and applied in real-world scenarios.

My research has been conducted in collaboration with the highest-reputed scientists and several prestigious international research centers and companies, with ongoing active collaborations. It has led to the publication of more than 130 research papers, with approximately 80 co-authors from various countries. Many papers have been written in collaboration with Ph.D. students and postdoctoral researchers whom I have supervised.

In 2016, I received the EATCS Award for Best Italian Young Researcher in Theoretical Computer Science, and in 2017, I was selected for the final phase of the ERC starting grant with a score of A.

My research on efficient autonomous systems is supported by three research grants for which I am the principal investigator, site leader, or WP leader. My research record contributed to the positive evaluation of the Computer Science Area of the Gran Sasso Science Institute in the latest Italian research evaluation exercise (VQR 2015–2019). The Area has been ranked first among all computer science departments in Italy and this allowed us to successfully apply for funding a “Department of Excellence”. I was one of the authors of the proposal, which was ranked first among all proposals in Computer Science and Mathematics. The funded proposal for the Department of Excellence is partially based on my research on efficient algorithms for distributed autonomous systems.

6.1 Recent and ongoing research

In what follows, I provide a summary of the context and main achievements of a selection of my recent and ongoing research projects on autonomous distributed systems. The following research projects focus on analyzing the computational complexity of problems and algorithms, as well as designing, analyzing, and evaluating approximation algorithms for computationally hard problems.

Information diffusion and influence maximization. Online social networks play an essential role in disseminating information, opinions, and knowledge among autonomous users. When a user of a social network receives or acquires some information, she may share it with her direct contacts, who may share it with their contacts, and so on, generating a cascade effect that can reach a large number of users and affect, change, or reinforce their opinions. This phenomenon is known as information spreading or influence diffusion and has been extensively studied during the last 20 years in several research disciplines, including economics, physics, and several areas of computer science like Algorithmics, AI, and DM.

My research covered several relevant aspects of information spreading in networks, including fairness and diversity of exposure [15, 60, 61, 68, 72, 73, 78], adaptive optimization [12, 70, 71], network augmentation and recommendation systems [17, 24, 25, 82, 89], voting and election manipulation [13, 14, 21, 25, 76, 77, 81, 83], and misinformation mitigation [67]. For all these problems we provided both hardness and approximation results.

My research in this context resulted, among the others, in 9 papers in A* conferences, 4 papers in A conferences (according to Core), and 3 papers in Q1 journals (according to Scimago). These papers have been published in a relatively short period of time and in top venues of different areas of computer science, namely Algorithmics, AI, and DM. The impact of my results can be observed by the high number of citations received in the last few years from both theoretical and applied papers that exploited or extended our algorithms in different contexts or practical scenarios.

This line of research has been carried out in collaboration with Ph.D. students and post-docs I supervised at Gran Sasso Science Institute and resulted in 5 Ph.D. theses.

This research line has been partially supported by projects ALGADIMAR and GAMING, see below.

Mixed-criticality Scheduling of Real-Time Systems. Many safety-critical embedded systems are subject to certification requirements. Mixed-criticality embedded systems are required to meet multiple sets of certification requirements from different certification authorities with different levels of criticality. Such systems give rise to interesting scheduling problems that cannot be satisfactorily addressed using conventional scheduling theory.

We studied a formal model for representing such mixed-criticality systems and first showed the intractability of determining whether a system can meet all its certification requirements [46, 124]. Then we quantified, via the metric of processor speedup factor, the effectiveness of two techniques, reservation-based scheduling and priority-based scheduling, that are widely used in this context, showing that the latter of the two is superior to the former and that the speedup factors we obtained are tight for these two techniques [46, 124].

We proposed an algorithm called EDF-VD (for Earliest Deadline First with Virtual Deadlines) that can schedule systems for which any number of criticality levels are defined [36, 110, 113]. We provided efficient implementations of EDF-VD, as well as associated schedulability tests for determining whether a task system can be correctly scheduled with EDF-VD using the processor speedup factor and utilization bounds metrics. The first conference papers proposing the EDF-VD algorithm [110, 113] received about 600 citations on Google Scholar and 400 citations in Scopus, coming from different areas. In subsequent work from several research groups, our algorithm has been implemented, analyzed, tested, and heuristically improved in several theoretical and practical contexts and it is now considered the baseline algorithm for the scheduling of mixed-criticality systems.

Centrality measures in complex networks. Determining the most important nodes in a network is one of the main problems in network analysis. Several so-called centrality measures have been defined in the literature to try to quantitatively capture the notion of importance (or centrality) of a node within a network. A node is considered “central” if it is important within the network and it is believed that the importance that a node has within a network reflects, to some extent, the position of the node in the network and, more in general, the network structure. In this context, the main problems consist of computing the centrality measures of each node or a group of nodes, computing the ranking of nodes, and determining the nodes with the highest centrality.

In my research, I studied several problems related to centrality measures in networks, including network optimization, group centrality, and Shapley centrality.

In the context of network optimization, we look at centrality measures from a proactive point of view, that is, we want to modify an existing network with the aim of improving the centrality of a given node or a group of nodes. We introduced this problem for many centrality measures (including closeness, harmonic, and betweenness) and we provided the best approximation algorithms so far as well as matching hardness of approximation bounds [7, 27, 30, 80, 95].

Regarding group centrality, we provided the current best approximation algorithms to compute group closeness and group harmonic centrality with proven approximation guarantees. Moreover, we implemented, heuristically improved, and extensively tested our algorithms in real-world networks, showing their effectiveness and efficiency in practice [74]. Finally, we extended a work by Chen and Teng (WWW’17), who introduced the so-called Shapley centrality of a node to measure the efficiency of nodes acting as seeds of the influence maximization problem within a pre-existing but unknown set of seeds. We obtained strong hardness of approximation results for the case of Shapley group centrality and provided an approximation algorithm for the case in which the size of the set is bounded [68, 73].

This research line has been partially supported by projects ALGADIMAR and GAMING, see below.

Network design in static and temporal graphs. Network Design is one of the most active research topics in the areas of approximation algorithms and combinatorial optimization. Optimization problems arising from network design have been widely studied in the last decades. My research focused on two of

the main problems in this area, namely graph spanners and Steiner problems. Regarding graph spanners, we provided the first characterization of the trade-off between size and distances in spanners of temporal graphs, a generalization of graphs in which edges can appear only at specified time-instants that recently received much attention in the area of algorithmics [64]. We further studied the stretch-size trade-offs of spanners of temporal graphs that are resilient in case of edge or time faults [11]. We also studied spanners that guarantee multiple disjoint paths of minimum cost, advancing the status of a 30-year-old problem posed by Tarjan [66]. Finally, we characterized the computational complexity of approximating the problem of scheduling the availability time of the edges of a temporal graph in such a way that all pairs of vertices are connected within a given maximum allowed time and the overall number of labels is minimized. For this problem, we provided approximation algorithms and lower bounds on the approximation [57].

We considered some generalization of the Steiner problem in graphs in the case in which the graph is directed and/or the prize function is monotone and submodular, providing the first sub-linear approximation bounds for these general problems [56, 58, 59, 63].

This research line has been partially supported by projects GAMING and SCHEDULE, see below.

Other research interests

- Approximation algorithms
 - Algorithms for optimization problems in computer, communication, transportation, sensor, and social networks;
 - Approximation algorithms for multiprocessor scheduling problems;
 - Approximation algorithms for network design problems;
- Analysis of complex networks with particular reference to social networks
 - Algorithms for large scale complex networks;
 - Algorithms for network augmentation problems;
 - Algorithms for dynamic computation of centrality indices in complex networks;
 - Algorithms for information diffusion problems in complex networks;
- Distributed computing
 - Distributed algorithms for shortest paths in dynamic networks;
 - Distributed algorithms for autonomous vehicles;
 - Distributed algorithms for autonomous agents in asynchronous anonymous networks;
 - Classes of complexity of distributed languages;
- Real-time scheduling
 - Scheduling algorithms for real-time and mixed-criticality systems;
 - Scheduling algorithms for hierarchical parallel processors in real-time systems;
- Dynamic graph algorithms and data structures
 - Algorithms for dynamic shortest paths computation;
 - Speed-up techniques for shortest paths in dynamic graphs;
 - Algorithms for temporal graph problems;
 - Spanners in temporal graphs;
- Algorithm Engineering
 - Implementation and experimental evaluation of algorithms and computational models;
 - Deployment of algorithms in real-world applications;
- Computer and communication networks
 - Algorithms for networks with shared risk link groups;
 - Algorithms for flow, connectivity and coverage of multi-interface networks;
 - Algorithms for optimization problems in sensor networks;

- Transportation networks and railway optimization
 - Robust and on-line planning in large scale systems;
- Computational models for robust and dynamic combinatorial optimization problems
 - Robust algorithms and recoverable robustness;
 - Graph models for dynamic networks;
- Computational social Choice
 - Social influence in election control problems;
 - Computational aspects of interactive voting systems.

6.2 Main research collaborations

- **On Algorithms for Network Analysis:** Henning Meyerhenke (Karlsruhe Institute of Technology), Pierluigi Crescenzi (Gran Sasso Science Institute), Yllka Velaj (University of Vienna), Lorenzo Severini (Unicredit, Rome), Martin Olsen (University of Aarhus), Alexander van der Grinten (Humboldt University, Berlin), and Eugenio Angriman (Google);
- **On Algorithms for Communication Networks and Wireless Sensor Networks:** David Coudert (INRIA Sophia Antipolis), Jean-Claude Bermond (INRIA Sophia Antipolis), Cristina Pinotti (University of Perugia), Alfredo Navarra (University of Perugia), and Vahan V. Mkrtchyan (Purdue University);
- **On Distributed Computing:** Pierre Fraigniaud (CNRS, IRIF Paris), Nicolas Nisse (INRIA Sophia Antipolis), Xavier Défago (Tokyo Institute of Technology), Ralf Klasing (CNRS. LABRI Bordeaux), Alkida Balliu (Gran Sasso Science Institute), and Dennis Olivetti (Gran Sasso Science Institute).
- **On Algorithms for Transportation Networks:** Christos D. Zaroliagis (University of Patras), Dorothea Wagner (Karlsruhe Institute of Technology), Daniel Delling (Google), Gabriele Di Stefano (University of L'Aquila), Serafino Cicerone (University of L'Aquila), Mattia D'Emidio (University of L'Aquila), and Daniele Frigioni (University of L'Aquila);
- **On Algorithms for Temporal Graphs:** Davide Biló (University of L'Aquila), Luciano Gualà (Tor Vergata University of Rome), Stefano Leucci (University of L'Aquila), Laurant Viennot (INRIA Paris), and Arnaud Casteigts (University of Geneve);
- **On Influence Maximization:** Cosimo Vinci (University of Salento), Hugo Gilbert (LAMSADE, Université Paris Dauphine), Ruben Becker (Ca' Foscari University of Venice), Emilio Cruciani (University of Salzburg), Federico Corò (University of Padua), and Gianpiero Monaco (University of Pescara);
- **On Real-Time Scheduling:** Alberto Marchetti Spaccamela (Sapienza University of Rome), Vincenzo Bonifaci (Roma 3 University of Rome), Sanjoy Baruah (Washington University, St. Louis), Leen Stougie (CWI Amsterdam), Nicole Megow (University of Bremen), and Björn B. Brandenburg (MPI-SWS);

6.3 Summary of publications

Published papers:

- 44 journals papers, including 22 papers in Scimago Q1 journals;
- 80 papers in proceedings of international conference, including 14 Core A* and 15 Core A conferences;
- 4 edited volumes;
- 6 book chapters.

The papers have been published in the most relevant journals and conferences of the respective research areas, including:

- Journals: Journal of the ACM, Artificial Intelligence Journal, IEEE Transactions on Mobile Computing, ACM Transactions on Knowledge Discovery from Data, Journal of Artificial Intelligence Research,

Algorithmica, Distributed Computing, Journal of Computer and System Sciences, Networks, IEEE Transactions on Computers.

- Conferences: ICALP, ESA, STACS ISAAC, MFCS, ALLENEX, DISC, IPDPS, AAAI, IJCAI, AAMAS, CIKM, ECRTS.

Bibliometric indices:

- Google Scholar: Citations: 3270; h-index: 27; i10-index: 77.
- Scopus: Citations: 2004; h-index: 22; i10-index: 52.

6.4 Funded Research projects and grants

Project coordination

1. **Project name:** GAMING “Graph Algorithms and MinINg for Green agents”.
Role: Principal Investigator.
Funding Program: Cascade call of Programme FAIR “Future Artificial Intelligence Research”, National Recovery and Resilience Plan (NRRP).
Funding: 220kE.
Period: 2024–2025.
2. **Project name:** SCHEDULE “Smart interseCtions with connEcted and aUtonomous vehicLEs”.
Role: Site leader for the GSSI unit and Work Package leader for WP2.
Funding Program: Cascade call of Programme RESTART - “RESearch and innovation on future Telecommunications systems and networks, to make Italy more smART”, National Recovery and Resilience Plan (NRRP).
Funding: ≈77kE for the GSSI unit. ≈133kE for WP2.
Period: 2024–2025.
3. **Project name:** MOVEOVER “wireless communications for seamless MObility in connected VEHICLES for the day-3 and OVER”.
Role: Task leader for Task 2.3.
Funding Program: Focused project of Programme RESTART - “RESearch and innovation on future Telecommunications systems and networks, to make Italy more smART”, National Recovery and Resilience Plan (NRRP).
Period: 2024–2025.
4. **Project name:** ALGADIMAR “Algorithms, Games, and Digital Markets (ALGADIMAR)”.
Role: Site leader for the GSSI unit.
Funding Program: Italian Ministry of Research. Research projects of national interest (“Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale”), PRIN) 2017. Line “a – senior” (“linea di intervento principale”).
Funding: ≈122kE for the GSSI unit.
Period: 2019–2023.
5. Recipient of the national fund for basic research (Finanziamento delle Attività Base di Ricerca, FFABR), 2017.

Participation to funded research projects (selection)

1. Seed grant University of Vienna “How socio-demographics shape language in digital and in-person interactions”.
2. INdAM - GNCS Project “Allocazioni Eque ed Efficienti di Beni Indivisibili con Multiple Funzioni di Valutazione” (CUP_E53C24001950001).

3. ARRIVAL – Algorithms for Robust and on-line Railway optimization: Improving the Validity and reliability of Large-scale systems, IST-FET OPEN Specific Targeted Research Project within the 6th Framework Programme of European Community, contract no. FP6-021235-2.
4. MSC - Tecniche e Tecnologie per la Sorveglianza. University of L'Aquila e Marconi-Selenia Communications.
5. ARS TechnoMedia – Algoritmica per le Reti Sociali Tecno-mediate. National research project funded through the national program “Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale” (PRIN 2010).
6. Scientific association to the National Institute for Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN), within the DARKSIDE project concerning dark matter.
7. ARISE – Arising Robust Internetworked System for Emergency contexts. Foundation Cassa di Risparmio della Provincia dell'Aquila.
8. VITALITY – “Innovation, digitalisation and sustainability for the diffused economy in Central Italy” – Spoke ASTRA. National Recovery and Resilience Plan (NRRP).
9. RASTA – “Realtà Aumentata e Story-Telling Automatizzato per la valorizzazione di Beni Culturali ed Itinerari Turistici”. PON “Ricerca e Innovazione”.

Revision of research projects for funding agencies

- Member of Panel ST6 — Computer Science and Informatics, National Science Centre, Poland (schemes OPUS, OPUS LAP and SONATA).
- Agency for Quality of the Basque University System (UNIBASQ).
- Founding Scheme OPUS 27, National Science Centre, Poland.
- Croatian Science Foundation (HRZZ).
- National Center of Science and Technology Evaluation (NCSTE), Kazakhstan.

Industrial collaborations

I am collaborating with three private companies, Hipert s.r.l., Nindo s.r.l., and Radiolabs, to develop a prototype of a smart road intersection, where autonomous and connected vehicles transit through the intersection without stopping and adapting their speed to minimize fuel consumption. In this project, I am putting into practice several results of my research, including scheduling, graphs, and approximation algorithms. This requires developing, deploying, and integrating different technologies from several fields, including algorithms, control theory, communication technologies, and electronics. The collaboration with the companies resulted in the development of a proof-of-concept featuring multiple autonomous vehicles moving within a closed environment.

6.5 Editorial Activity

1. Guest Editor for ACM Journal of Experimental Algorithmics (ISSN 1084-6654).
2. Editorial Board of Algorithms (ISSN 1999-4893), SCIMAGO Q2.
3. Editor: Gianlorenzo D'Angelo and Othon Michail, Algorithmic Aspects of Cloud Computing — 6th International Symposium, ALGOCLOUD 2021, Lisbon, Portugal, September 6-7, 2021, Revised Selected Papers. Lecture Notes in Computer Science 13084, Springer 2021, ISBN 978-3-030-93042-4.
4. Editor: Gianlorenzo D'Angelo: 17th International Symposium on Experimental Algorithms (SEA 2018). LIPIcs vol. 103, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2018, ISBN 978-3-95977-070-5.
5. Editor: Gianlorenzo D'Angelo and Twan Dollevoet: 17th Workshop on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems. OASICS vol. 59, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2017, ISBN 978-3-95977-042-2.

6.6 Service in Conferences

Steering committees and board

1. Steering Committee of the International Symposium on Experimental Algorithms (SEA), 2022–now.
2. Program Committee Board (PCB) of the International Joint Conference on Artificial Intelligence (IJCAI), 2022–2024.

Program Committee Chair

1. 6th International Symposium on Algorithmic Aspects of Cloud Computing (ALGO CLOUD 2021), co-chair.
2. 17th International Symposium on Experimental Algorithms (SEA 2018).
3. 17th Workshop on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems (ATMOS 2017 – now called Symposium on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems), co-chair.

Senior Program Committees

1. 30th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2026).
2. 34th International Joint Conference on Artificial Intelligence (IJCAI 2025).
3. 24th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2025).
4. 22nd International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2023).
5. 30th International Joint Conference on Artificial Intelligence (IJCAI 2021).

Program Committees

1. 25th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2026).
2. 40th AAAI Conference on Artificial Intelligence (AAAI 2026).
3. 40th AAAI Conference on Artificial Intelligence (AAAI 2026) – Special Track on AI for Social Impact.
4. 26th Italian Conference on Theoretical Computer Science (ICTCS 2025).
5. 2nd Workshop on Green-Aware Artificial Intelligence (Green-Aware AI 2025).
6. 39th AAAI Conference on Artificial Intelligence (AAAI 2025).
7. 29th SIGKDD Conference On Knowledge Discovery And Data Mining (KDD 2024).
8. 33rd International Joint Conference on Artificial Intelligence (IJCAI 2024).
9. 3rd Symposium on Algorithmic Foundations of Dynamic Networks (SAND 2024).
10. 24th SIAM International Conference on Data Mining (SDM 2024).
11. 23rd International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2024).
12. 38th AAAI Conference on Artificial Intelligence (AAAI 2024).
13. 2nd Workshop on Strategies, Prediction, Interaction, and Reasoning in Italy (SPIRIT 2023).
14. 28th SIGKDD Conference On Knowledge Discovery And Data Mining (KDD 2023).
15. 23rd Symposium on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems (ATMOS2023).
16. 32nd International Joint Conference on Artificial Intelligence (IJCAI 2023).
17. 37th AAAI Conference on Artificial Intelligence (AAAI 2023).
18. 14th International Conference on Algorithms and Complexity (CIAC 2023).
19. 27th SIGKDD Conference On Knowledge Discovery And Data Mining (KDD 2022).
20. 22nd Symposium on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems (ATMOS2022).
21. 20th International Symposium on Experimental Algorithms (SEA 2022).
22. 31st International Joint Conference on Artificial Intelligence (IJCAI 2022) and 25th European Conference on Artificial Intelligence (ECAI2022).
23. 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2022).

24. 36th AAAI Conference on Artificial Intelligence (AAAI 2022).
25. 36th AAAI Conference on Artificial Intelligence (AAAI 2022) - Student poster track.
26. 23rd International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2021).
27. 19th International Symposium on Experimental Algorithms (SEA 2021).
28. 20th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2021).
29. 35th AAAI Conference on Artificial Intelligence (AAAI 2021).
30. 35th AAAI Conference on Artificial Intelligence (AAAI 2021) - Student poster track.
31. 23rd IEEE IPDPS Workshop on Advances in Parallel and Distributed Computational Models (APDCM2021).
32. 29th International Joint Conference on Artificial Intelligence and 17th Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI 2020).
33. 19th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2020).
34. 34th AAAI Conference on Artificial Intelligence (AAAI 2020).
35. 34th AAAI Conference on Artificial Intelligence (AAAI 2020) - Student poster track.
36. 24th European Conference on Artificial Intelligence (ECAI2020).
37. 20th Symposium on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems (ATMOS2020).
38. 22nd IEEE IPDPS Workshop on Advances in Parallel and Distributed Computational Models (APDCM2020).
39. 28th International Joint Conference on Artificial Intelligence (IJCAI 2019).
40. 20th Italian Conference on Theoretical Computer Science (ICTCS 2019).
41. 23rd International Conference on Principles of Distributed Systems (OPODIS2019).
42. 21st IEEE IPDPS Workshop on Advances in Parallel and Distributed Computational Models (APDCM2019).
43. 19th Italian Conference on Theoretical Computer Science (ICTCS 2018).
44. 6th International Symposium on Computing and Networking (CANDAR 2018).
45. 20th IEEE IPDPS Workshop on Advances in Parallel and Distributed Computational Models (APDCM 2018).
46. 20th Workshop on Algorithm Engineering and Experiments (ALENEX 2018).
47. 5th International Symposium on Computing and Networking (CANDAR 2017).
48. 19th IEEE IPDPS Workshop on Advances in Parallel and Distributed Computational Models (APDCM 2017).
49. 9th IEEE International Workshop on Network Science for Communication Networks (NetSciCom 2017).
50. 18th IEEE IPDPS Workshop on Advances in Parallel and Distributed Computational Models (APDCM 2016).
51. 24th European Symposium on Algorithms (ESA 2016).
52. 17th IEEE IPDPS Workshop on Advances in Parallel and Distributed Computational Models (APDCM 2015).

Organizing Committees

1. ALGO 2026 in L'Aquila. ALGO is the major European event for researchers, students and practitioners in algorithms. It includes the following conferences and workshops related to algorithms and their applications:
 - 34th European Symposium on Algorithms (ESA 2026);
 - 11th International Symposium on Algorithmic Aspects of Cloud Computing (ALGO CLOUD 2026);
 - 22nd International Symposium on Algorithmics of Wireless Networks (ALGOWIN 2026);
 - 26th International Symposium on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems (ATMOS 2026);
 - 21st International Symposium on Parameterized and Exact Computation (IPEC 2026);
 - 26th International Workshop on Algorithms in Bioinformatics (WABI 2026);

- 24th Workshop on Approximation and Online Algorithms (WAOA 2026).
- 2. Computational and game-theoretical aspects of fair allocations and coalitions formation, GSSI, L'Aquila, 2026.
- 3. 37th International Symposium on Distributed Computing (DISC2023), GSSI, L'Aquila, 2023.
- 4. 26th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2019), GSSI, L'Aquila, 2019.
- 5. **Organizing committee chair** for the 17th International Symposium on Experimental Algorithms (SEA 2018), GSSI, L'Aquila, 2018. .
- 6. 2nd GSSI Summer Meeting on Algorithms, GSSI, L'Aquila, 2017.
- 7. 10th International Symposium on Algorithmic Game Theory (SAGT), GSSI, L'Aquila, 2017.
- 8. 1st GSSI Summer Meeting on Algorithms, GSSI, L'Aquila, 2016.
- 9. 2nd ARRIVAL Review Meeting, Sapienza University of Rome, 2008.
- 10. 2nd ARRIVAL Annual Workshop, Sapienza University of Rome, 2008.

6.7 Reviewing activity

International Journals

1. IEEE Transactions on Computers, IEEE Computer Society.
2. IEEE/ACM Transactions on Networking.
3. IEEE Transactions on Parallel and Distributed Systems, IEEE Computer Society.
4. IEEE Transactions on Network and Service Management, IEEE Communications Society.
5. IEEE Transactions on Intelligent Transportation Systems, IEEE Intelligent Transportation Systems Society.
6. ACM Transactions on Algorithms, ACM.
7. ACM Journal of Experimental Algorithmics, ACM.
8. Journal of Computer and System Sciences, Elsevier.
9. Theoretical Computer Science, Elsevier.
10. Theory of Computing Systems, Springer.
11. Distributed Computing, Springer.
12. Discrete Applied Mathematics, Elsevier.
13. Information and Computation, Elsevier.
14. Journal of Discrete Algorithms, Elsevier.
15. Journal of Graph Algorithms and Applications.
16. Transportation Research Part A: Policy and Practice, Elsevier.
17. Transportation Research Part B: Methodological, Elsevier.
18. INFORMS Journal on Computing, INFORMS.
19. Computers & Operations Research.
20. Networks, Wiley.
21. Journal of Zhejiang University-SCIENCE A, Springer.
22. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, IEICE.
23. Control & Cybernetics, Polish Academy of Sciences.

International Conferences

1. SIAM Symposium on Simplicity in Algorithms (SOSA26).
2. 30th Web Conference (WWW2021).
3. 52nd Annual ACM Symposium on Theory of Computing (STOC 2020).
4. 22nd Workshop on Algorithm Engineering and Experiments (ALENEX 2020).
5. 33rd International Symposium on Distributed Computing (DISC 2019).
6. 32nd International Symposium on Distributed Computing (DISC 2018).
7. 27th International Joint Conference on Artificial Intelligence (IJCAI 2018).

8. 31st International Symposium on Distributed Computing (DISC 2017).
9. 42nd International Symposium on Mathematical Foundations of Computer Science (MFCS 2017).
10. 31st IEEE International Parallel & Distributed Processing Symposium (IPDPS2017).
11. 18th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2016).
12. 17th Italian Conference on Theoretical Computer Science (ICTCS 2016).
13. 8th International Conference on Fun with Algorithms (FUN 2016).
14. 30th IEEE International Parallel & Distributed Processing Symposium (IPDPS2016).
15. 40th International Symposium on Mathematical Foundations of Computer Science (MFCS2015).
16. 9th International Conference on Algorithms and Complexity (CIAC 2015).
17. 21st International Colloquium on Structural Information and Communication Complexity (SIROCCO 2014).
18. 20th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2013).
19. 9th International Symposium on Algorithms for Sensor Systems, Wireless Ad Hoc Networks and Autonomous Mobile Entities (ALGOSENSORS 2013).
20. 12th International Symposium on Experimental Algorithms (SEA 2013).
21. 13th Workshop on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems (ATMOS 2013).
22. 12th International Conference on Ad Hoc Networks and Wireless (ADHOC-NOW 2013).
23. 6th IEEE International Conference on Cyber, Physical and Social Computing (CPSCoM 2013).
24. 33rd International Conference on Distributed Computing Systems (ICDCS 2013).
25. 12th Workshop on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems (ATMOS 2012).
26. 11th International Symposium on Experimental Algorithms (SEA 2012).
27. 29th Symposium on Theoretical Aspects of Computer Science (STACS 2012).
28. 39th International Colloquium on Automata, Languages and Programming (ICALP 2012).
29. 32nd International Conference on Distributed Computing Systems (ICDCS 2012).
30. 6th International Conference on Fun with Algorithms (FUN 2012).
31. 10th International Symposium on Experimental Algorithms (SEA 2011).
32. 7th International Symposium on Algorithms for Sensor Systems, Wireless Ad Hoc Networks and Autonomous Mobile Entities (ALGOSENSORS 2011).
33. 18th International Symposium on Fundamentals of Computation Theory (FCT 2011).
34. 9th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA 2011).
35. 10th Workshop on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems (ATMOS 2010).
36. 15th Annual European Symposium on Algorithms (ESA 2007).

6.8 Speaker at scientific events

Invited

1. Institut de Recherche en Informatique Fondamentale (IRIF), Université Paris Cité and CNRS, Paris (FR), 30 April, 2024.
2. EngTech Group Seminar, Department of Business Development and Technology, Aarhus University. Herning (DK), 6 September, 2023.
3. ICE-TCS + CS@GSSI joint seminars, GSSI and Reykjavik University (online), 21 October, 2020.
4. EngTech Group Seminar, Department of Business Development and Technology, Aarhus University. Herning (DK), 28 February, 2018.
5. Algoritmi a Colazione, Dipartimento Ingegneria Civile e Ingegneria Informatica, università di Tor Vergata. Rome, Italy, 12 December, 2017.
6. 17th Italian Conference on Theoretical Computer Science (ICTCS 2016). Lecce, Italy, 7–9 September,

2016.

Contributed

1. 24th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2025).
2. 31st IEEE International Parallel & Distributed Processing Symposium (IPDPS 2017). Orlando, Florida USA, 29 May–2 June 2017.
3. 17th Italian Conference on Theoretical Computer Science (ICTCS 2016). Lecce, Italy, 7–9 September, 2016.
4. 28th Euromicro Conference on Real-Time Systems (ECRTS16). Toulouse, France, 5–8 July, 2016.
5. 12th Workshop on Models and Algorithms for Planning and Scheduling Problems (MAPSP 2015). La Roche-en-Ardenne, Belgium, 8–12 June, 2015.
6. 15th Italian Conference on Theoretical Computer Science (ICTCS 2014). Perugia, Italy, 17–19 September, 2014.
7. 9th International Symposium on Algorithms and Experiments for Sensor Systems, Wireless Networks and Distributed Robotics (ALGOSENSORS 2013). Sophia-Antipolis, France 2–6 September, 2013.
8. 26th International Symposium on Distributed Computing (DISC 2012). Salvador de Bahia, Brasil, 15–19 October, 2012.
9. 24th Euromicro Conference on Real-Time Systems (ECRTS12). Pisa, Italy, 11–13 May, 2012.
10. 11th International Symposium on Experimental Algorithms (SEA 2012). Bordeaux, France, 7–9 June, 2012.
11. 10th International Symposium on Experimental Algorithms (SEA 2011). Crete, Greece, 5–7 May, 2011.
12. 35th International Symposium on Mathematical Foundations of Computer Science (MFCS 2010). Brno, Czech Republic, 23–27 August, 2010.
13. 9th International Symposium on Experimental Algorithms (SEA 2010). Ischia, Italy 20–22 May, 2010.
14. 20th International Workshop on Combinatorial Algorithms, Hradec nad Moravici, Czech Republic, 28 June – 2 July 2009.
15. 3rd ARRIVAL Review Meeting, Patras, Greece, 12 May 2009.
16. Large-Scale Optimization: Robustness, Online and Offline Issues, Patras, Greece, 13–15 May 2009.
17. 3rd International Seminar on Railway Operations Modelling and Analysis Engineering and Optimisation Approaches (RailZurich2009), Zurich, Switzerland, 11–13 February 2009.
18. 2nd Annual International Conference on Combinatorial Optimization and Applications (COCOA'08), St. John's, Newfoundland, Canada, 20–24 August 2008.
19. 2nd ARRIVAL Annual Workshop, Rome, Italy, 12–14 March 2008.
20. 2nd ARRIVAL Review Meeting, Rome, Italy, 11 March 2008.
21. 7th Workshop on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems (ATMOS'07), Seville, Spain, 15–16 November 2007.
22. Robust Planning and Rescheduling in Railways (R3), Utrecht, Netherlands, 18–19 April 2007.
23. International Conference on Computing: Theory and Application (ICCTA'07), Kolkata, India, 5–7 March 2007.

7 Teaching and mentoring

My teaching activity focused on the training of Ph.D. students and post-docs.

I have wide experience in the supervision of Ph.D. Students. I supervised 14 Ph.D. students in Computer Science and Engineering. Those who have already obtained their Ph.D. are now having a successful career in the academy or industries, where they apply their acquired knowledge of algorithm design to solve real-world complex industrial problems. Some students and post-docs I supervised received prestigious awards for their research, including the Women@McKinsey Dissertation Award, the EATCS Award for Best Italian Young

Researcher in Theoretical Computer Science, and best student paper awards at international conferences. They have all published research papers in top-ranked conferences and journals under my supervision.

I also supervised or mentored 5 post-doctoral researchers: Ruben Becker (currently Tenure Track Assistant Professor at Ca' Foscari University in Venice, Italy), Hugo Gilbert (currently Associate Professor at Université Paris Dauphine), Vahan Mkrtchyan (currently Tenure Track Assistant Professor at Purdue University), Cosimo Vinci (currently Associate Professor at University of Salento, Italy), and Riccardo Michielan (currently GSSI post-doc).

I contributed to the organization and development of the Ph.D. program in Computer Science at the Gran Sasso Science Institute, for which I have been the Deputy Director from 2021 to 2024.

In what follows, I detail the teaching activities I have done, with a particular focus on Ph.D. programs.

Methodology and approach. I believe that mastering computer science requires solid and rigorous theoretical knowledge, practical skills, and an attitude to model and solve real-world problems. That is why I include both theoretical rigor and practical applications when teaching courses. I regularly teach two graduate courses: a theoretical course on approximation algorithms and an engineering-oriented one on experimental analysis of algorithms. In the former, I show applications of the exposed theory; in the latter, I teach how to perform rigorous experimental evaluations guided by theory.

Teaching in a course is not only about delivering classroom lectures but also about engaging students in activities. I continuously interact with students during and after classes. I involve them in the lectures and ask them questions to encourage them to actively think about the topics, be curious, and enjoy learning new topics. Teaching graduate courses also involves stimulating students to find new solutions to open research questions and to envision new research directions. With this aim in mind, the exams of my courses are based on research projects. Students are divided into small groups, and each group is assigned a research question to solve. The groups meet among themselves and with the instructor and report their results in periodic meetings. The instructor's role is to guide the students during the meetings. The evaluation is not based on results but on the attitude to contribute and learn, as shown during meetings. Working in groups also helps students appreciate the power and joy of conducting research as a team.

Mentoring and supervising graduate students are two aspects of my job that I enjoy the most and dedicate more time to. I enjoy fostering graduate students and transmitting to them my passion for research and knowledge discovery. I believe that mentoring a graduate student means guiding him to develop his own potential. My primary concern when supervising students is to enable them to become independent researchers. With this in mind, I usually stimulate the students with new research questions and directions and then guide them in approaching such questions. It is a true satisfaction to see that, after an initial period in which the students face the difficulties of addressing a new research question, they appreciate the posed challenges and finally become independent, confident, and proud of what they can do.

7.1 Supervision of students and Post-docs

- Supervision of 14 Ph.D. Students (detailed below).
- Supervision or mentoring of 5 Postdoctoral researchers (detailed below).
- Awards by supervised Ph.D. students and post-docs under the supervision of G. D'Angelo
 - Y. Velaj received the 2018 Women@McKinsey Dissertation Award for her Ph.D. thesis;
 - Y. Velaj received the best student paper award at the 26th SIGKDD Conference On Knowledge Discovery And Data Mining (KDD 2021);
 - C. Vinci received the 2023 EATCS Award for Best Italian Young Researcher in Theoretical Computer Science;
 - Y. Velaj obtained the Italian National qualification (ASN) as Associate Professor in Computer Science and in Computer Engineering.
 - F. Corò obtained the Italian National qualification (ASN) as Associate Professor in Computer Science and in Operation Research.

- M. Rossi received the best student paper award at the 28th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2021);
- M. Rossi received the best student paper award at the 18th International Symposium on Algorithmics of Wireless Networks (ALGOSENSORS 2022).
- Supervision of a post-doctoral researcher hired within the project ALGADIMAR (PRIN2017) for which G. D’Angelo is the local coordinator at the Gran Sasso Science Institute.
 - Cosimo Vinci is currently Associate Professor at University of Salento (Italy) and received the 2023 EATCS Award for Best Italian Young Researcher in Theoretical Computer Science given by the Italian Chapter of the EATCS (European Association for Theoretical Computer Science).
- Supervision of a post-doctoral researcher hired within the project GAMING for which G. D’Angelo is the Principal Investigator
 - Riccardo Michielan (currently post-doc at GSSI).
- Mentor of 3 post-doctoral researchers at the Gran Sasso Science Institute:
 - Ruben Becker (currently Tenure Track Assistant Professor at Ca’ Foscari University in Venice, Italy),
 - Hugo Gilbert (currently Associate Professor at Université Paris Dauphine, France),
 - Vahan Mkrtchyan (currently Tenure Track Assistant Professor at Purdue University, USA).
- Advisor or co-advisor of the following Ph.D. students within the Ph.D. program in Computer Science at Gran Sasso Science Institute. The year of Ph.D. defense and current position is reported after the name of the student.
 - Lorenzo Severini (XXIX cohort) Ph.D. 2017, Researcher at Unicredit, Rome;
 - Yllka Velaj (XXIX cohort) Ph.D. 2017, Assistant Professor (tenured), Faculty of Computer Science, University of Vienna; Recipient of the 2018 Women@McKinsey Dissertation Award for her Ph.D. thesis; National qualification (ASN) as Associate Professor in Computer Science and Computer Engineering; Best student paper award at KDD 2021;
 - Francesco Cellinese (XXXI cohort), Ph.D. 2019, Algorithm Expert and Senior Consultant, Reply, Rome;
 - Federico Corò (XXXII cohort), Ph.D. 2019, Assistant Professor (RTD/a in INF/01), Department of Mathematics, University of Padova; National qualification (ASN) as Associate Professor in Computer Science and in Operation Research;
 - Mohammad Abouei Mehrizi (XXXIII cohort), Ph.D. 2021, Senior Algorithm Engineer, Delivery Hero, Berlin;
 - Esmail Delfaraz (XXXIV cohort), Ph.D. 2023, Post-doc at University of L’Aquila;
 - Sajjad Ghobadi (XXXIV cohort), Ph.D. 2023, Post-doc at University of Perugia;
 - Debashmita Poddar (XXXIV cohort), Ph.D. 2023, Post-doc at Free University of Bozen-Bolzano;
 - Mirko Rossi (XXXV cohort), Ph.D. 2024. Software Enginner, Reply, Rome. Best student paper award at the 28th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2021) and best student paper award at the 18th International Symposium on Algorithmics of Wireless Networks (ALGOSENSORS 2022);
 - Daniele Carnevale (XXXVII cohort), ongoing, to be graduated in November 2025. He will start a post-doc position at the University of Geneve from January 2026;
 - Mahsa Nikmard (XXXVIII cohort), ongoing;
 - Hamed Azami-Zenouzagh (XXXIX cohort), ongoing.
 - Davi de Andrade Iacono (XL cohort), ongoing.
- Co-advisor of a Ph.D. student within the Ph.D. program in Electrical and Information Engineering of the University of L’Aquila, Italy (XXVI cohort). The Ph.D. student, Mattia D’Emidio, is currently Associate Professor at the Department of Information Engineering, Computer Science, and Mathematics of the University of L’Aquila.

- Published 72 papers with supervised students and post-docs, including 32 papers co-authored only with supervised students and post-docs.
- Published 24 papers in Scimago Q1 journals or Core A* conference, and 11 papers in Core A conferences co-authored with supervised students and post-docs.
- Internal tutor Tutor of the following Ph.D. students within the Ph.D. program in Computer Science at Gran Sasso Science Institute.
 - Alkida Balliu (XXX cohort);
 - Dennis Olivetti (XXX cohort);
 - Cosimo Vinci (XXX cohort);
 - Matteo Tonelli (XXXI cohort);
 - Emilio Cruciani (XXXII cohort);
 - Stefano Ponziani (XXXII cohort);
 - Sara Rizzo (XXXIII cohort);
 - Mohammad Abouei Mehrizi (XXXIII cohort);
 - Giovanna Varricchio (XXXIII cohort);
 - Davi de Andrade (XL cohort).
- Co-advisor of 5 B.Sc. and M.Sc. theses at the School of Engineering of the University of L'Aquila, Italy.
- Advisor of a B.Sc. thesis at the School of Computer Science of the University of L'Aquila
- Advisor of a “Student research project” at the Institute for Theoretical Computer Science of Universität Karlsruhe (TH), Germany.
- Co-advisor of a Master thesis and an internship at the Institut national de recherche en informatique et en automatique (INRIA), Sophia-Antipolis, France.

7.2 Instructor of courses in Ph.D. programs

- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2025/2026.
- Instructor for the course “Experimental algorithmics and algorithm engineering”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2024/2025.
- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2024/2025.
- Instructor for the course “Experimental algorithmics and algorithm engineering”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2023/2024.
- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2023/2024.
- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2022/2023.
- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2021/2022.
- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2020/2021.
- Co-instructor for the course “Algorithm Engineering”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2020/2021.
- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2019/2020.
- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2018/2019.
- Instructor for the course “Approximation Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2017/2018.
- Co-instructor for the course “Approximation Algorithms and Algorithm Engineering”. Ph.D. Program

in Computer Science, Gran Sasso Science Institute. Academic year 2016/2017.

- Co-instructor for the course “Algorithm Engineering”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2015/2016.
- Co-instructor for the course “Design and analysis of Algorithms”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2015/2016.
- Instructor for the course “Algorithm Engineering”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2014/2015.
- Co-instructor for the course “Algorithm Design”. Ph.D. Program in Computer Science, Gran Sasso Science Institute. Academic year 2014/2015.
- Instructor for the cycle of lectures “Approximation Algorithms”. Ph.D. program “Dottorato di Ricerca in Matematica e Informatica per l’Elaborazione e la Rappresentazione dell’Informazione e della Conoscenza”. Department of Mathematics and Informatics, University of Perugia, Italy. Academic Year 2012/2013.

7.3 Teaching seminars and reading groups for Ph.D. Students

- Reading group on algorithms: Adaptive Seeding in Social Networks.
- Reading group on algorithms: Maximum Coverage Problem with Group Budget Constraints and Applications.
- Social Influence for Election Control. Seminar for the Computer Science Area of the Gran Sasso Science Institute. 20 November 2018.

7.4 Scientific dissemination and outreach

- Seminar “Fairness in Influence Maximization”, Interdisciplinary Workshop “Algorithms for Life”, University of Sassari, Italy. 6 June 2022.
- Course for high school teachers “Comunicare in maniera sicura e proteggere i nostri dati digitali (GSSI4School STEM)”, Ufficio Regionale Scolastico Abruzzo, Italy. 21 March 2022.
- Seminar “Maximizing the spread of influence with network augmentation”, Scientific dissemination seminars, University of Perugia, Italy. 26 September, 2017.
- Educational guidance seminar and round table for high school students “Scegli la tua Strada”. Seminar and round table for all the high school students of the city of Lanciano, Italy. 10 March 2017.
- Volunteer for outreach activities of the European Researchers’ Night under the SHARPER project, 2014–2016.

8 Roles and positions in Universities and scientific institutions

Roles in research institutions and scientific associations

- Executive board member of the Center of Excellence EX-EMERGE (Centre of EXcellence on Connected, Geo-localized and Cyber-secure vehicles) since 2025. EX-EMERGE is a Center of Excellence at the University of L’Aquila, focusing on research and technological transfer related to connected and autonomous vehicles. It has ongoing collaboration with the leading car manufacturers and network providers.
- Government Board Member of the Department of Excellence of the Gran Sasso Science Institute (GSSI) 2023–2027. The Department of Excellence at GSSI is a 5-year program funded by the Italian Government. The funding has been obtained thanks to the first rank of the GSSI Computer Science Area to the the latest Italian research evaluation exercise (VQR 2015–2019) and to a successful application, which I contributed to write and is partially based of my research topics. From March 2023 to March 2024.
- Member of the Council of the Italian Chapter of the EATCS (European Association for Theoretical Computer Science) from 2017 to 2022.

- Scientific association with the Italian National Institute For Nuclear Physics (Istituto Nazionale di Fisica Nucleare, INFN) since July 2018.
- Scientific association with the Gran Sasso Tech Foundation (GST), no-profit research and technological transfer institute founded by Gran Sasso Science Institute and Thales Alenia Space Italia since 2023.
- Member of the Italian Institute for Advanced Mathematics “Francesco Severi” (Istituto Nazionale di Alta Matematica - INdAM) and the Italian National Group for Scientific Computation (GNCS-INdAM).
- Member of the GSSI group (nodo GSSI) of the national laboratory for Artificial Intelligence and Intelligent Systems of the Consorzio Interuniversitario Nazionale per l’Informatica (CINI).
- Member of the GSSI group (nodo GSSI) of the national laboratory for Smart Cities & Communities of the Consorzio Interuniversitario Nazionale per l’Informatica (CINI).
- Member of the FAIR Foundation (“Future Artificial Intelligence Research”), no-profit Research Foundation founded through the the National Recovery and Resilience Plan (NRRP).
- Member of the RESTART Foundation (“RESearch and innovation on future Telecommunications systems and networks, to make Italy more smART”), no-profit Research Foundation founded through the the National Recovery and Resilience Plan (NRRP).

Academic and hiring committees

- Coordinator of the joint committee teacher-students (Commissione Paritetica docenti-studenti) of the Gran Sasso Science Institute since 2025.
- Member of the Quality Assurance Committee (Presidio di Qualità) of the Gran Sasso Science Institute from 2020 to 2025.
- Member of the joint committee teacher-students (Commissione Paritetica docenti-studenti) of the Gran Sasso Science Institute since 2019.
- Member of the evaluation committee for the best M.Sc. thesis in Theoretical Computer Science of the Italian Chapter of the EATCS from 2017 to 2022.
- Member of the hiring committee for Post-doc researchers at the Gran Sasso Science Institute, years 2018, 2019, and 2024.
- Member of the hiring committee for a Post-doc researcher at the Gran Sasso Science Institute within the ERC project Laudare, 2023.
- Chair (Presidente) of the hiring committee for a Post-doc researcher at the Gran Sasso Science Institute within the project GAMING, 2024.
- Member of the hiring committee for an Assistant Professor (ricercatore a tempo determinato ai sensi dell’art. 24, comma 3 lett. a della legge 240/2010, Ricercatore Tempo Determinato di tipo a) at the University of Catania.

Roles in Ph.D. Programs

- Deputy Director (Vice Coordinatore) of the Ph.D. program in Computer Science of the Gran Sasso Science Institute from 2021 to 2024.
- Member of the Ph.D. Board of the Ph.D. program in Computer Science of the Gran Sasso Science Institute since 2017, cohorts XXXIII, XXXIV, XXXV, XXXVI, XXXVII, XXXVIII, XXXIX, XL, and XLI.
- Member of the Ph.D. Board of the National Ph.D. program in Blockchain and Distributed Ledger Technology, since 2022, cohorts XXXVIII and XXXIX.
- Assessor for the Ph.D. thesis of Joaquin Amigo Vega at the University of Maastricht (Netherlands).
- Chair (Presidente) of the Ph.D. defense committee for the Ph.D. Program in “Matematics, Informatics, and Statisics” (Matematica, Informatica e Statistica, curriculum Informatica), University of Florence, Italy (session of June 2022), for the following Ph.D. students:
 - Mohamad Almggerbi
 - Hafiza Maria Maqsood

- Giulio Rigoni
 - Mirko Staderini.
- Substitute member of the Ph.D. defense committee for the Ph.D. Program in Data Science, Sapienza Università di Roma, session of May 2023.
- Appointed member of the Ph.D. defense committee for the Ph.D. Program in Data Science, Sapienza Università di Roma (session of February 2024) for the following students:
 - Maria Sofia Bucarelli;
 - Riccardo Denni;
 - Giulia Di Teodoro;
 - Luca Franco;
 - Lorenzo Giusti;
 - Luca Maiano;
 - Andrea Mastropietro;
 - Federico Siciliano.
- Chair (Presidente) of the Ph.D. defense committee for the Ph.D. Program in Computer Science of the Gran Sasso Science Institute, Italy, (session of January 2024) for the following Ph.D. students:
 - Angelo Damiani;
 - Simone Fioravanti;
 - Gustavo Viera Lopez.
- Member of the Ph.D. defense committees for the Ph.D. Program in Computer Science, Gran Sasso Science Institute, for the following Ph.D. students:
 - Matteo Catena (2017);
 - Stefano Ruberto (2017);
 - Darko Bozhinoski (2017);
 - Venkatapathy Subramanian (2018);
 - Feliciano Colella (2018);
 - Emilio Incerto (2019);
 - Raffaello Carosi (2019);
 - Manuel Mauro (2019);
 - Imran Khan (2020);
 - Ahmed AbdelSalam (2020);
 - Lorenzo Pagliari (2020);
 - Giovanna Varricchio (2021).
- External reviewer for the following Ph.D. theses:
 - “Distributed Computing on Constrained Communication Models”, Giacomo Scornavacca (Università degli studi dell’Aquila), cohort XXXI, 2019;
 - “Models and algorithms with applications to wildfire management”, Alessia Di Fonso (Università degli studi dell’Aquila), cohort XXXV, 2022.
- Member of the committee for the admission to the Ph.D. program in Computer Science of the Gran Sasso Science Institute since 2017, cohorts XXXIII, XXXVI, XXXVII, XXXVIII, e XXXIX.
- Member of the committee for the definition of the regulation of the Ph.D. Program in Computer Science at the Gran Sasso Science Institute.

9 Summary and key figures

Most relevant scientific achievements

- I published more than 130 papers in prestigious international journals, conferences, and books. The publications include 14 Core A* conferences, 22 Scimago Q1 journals, and top journals and conferences in Algorithmics (JACM, ICALP, ESA), Artificial Intelligence (AAAI, IJCAI, AAMAS, AI Journal), Data Mining (TKDD, CIKM), and Real-Time Systems (IEEE TC).
- According to Scopus, my publications received more than 2000 citations and resulted in an h-index of 22, figures that are notably high considering the theoretical focus of my research. These citations span diverse domains within computer science as well as other academic fields, highlighting the broad impact and visibility of my research work.
- I am active in four different areas of computer science (Algorithmics, Artificial Intelligence, Data Mining, and Real-Time Systems) and I regularly publish and participate in the program committees of the top conferences of these areas.
- I have been selected for the final phase of ERC Starting Grant 2017 with a score of A.
- I have received several awards for my research activities and contributions to the scientific community, including the EATCS annual award for the best Italian young researcher in Theoretical Computer Science, as well as Distinguished Senior PC member awards in A* Core Conferences.
- I had post-doctoral or visiting researcher positions in international research institutions in Austria, Denmark, France, Germany, and Italy.
- I am highly involved in the scientific community. I have a high number of co-authors (approximately 80) from several countries, as well as numerous collaborations with various researchers and research centers worldwide.
- I gave invited and contributed talks in international research centers and conferences.
- I edited 4 scientific volumes, chaired of the program committee of 3 International conferences, participated to the steering committees of 2 International conferences, participated to about 60 Program committees (40 in the period 2020–2025, 25 on Core A* conferences), and reviewed research papers for more than 50 international journals and conferences.

Scientific organization, research management, and coordination

- I coordinate a research group at GSSI on topics related to approximation algorithms, graph and network algorithms, complex network analysis, combinatorial optimization, and algorithm engineering. The group trained several Ph.D. students, including 13 Ph.D. students supervised by me, and 5 post-doctoral researchers.
- I am currently coordinating a national research project. I coordinated the GSSI unit and a Work Package of a national research project, and a Task of a national research and technological transfer project. I coordinated the GSSI unit of a national research project funded through the national program “Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale” (PRIN) 2017.
- I participated in the evaluation of research project proposals for international funding agencies as a panelist or reviewer.
- I organized several conferences and scientific events: 4 edited volumes, 1 editorial board, 2 steering committees, 3 PC chairs, 1 organizing committee chair, 10 organizing committees, 5 Senior PCs (4 Core A*), and more than 50 PCs (21 Core A*). I am organizing ALGO 2026 in L’Aquila, the major European conference on algorithmics.

Supervision and training of Ph.D. students and postdocs, and teaching

- I supervised 14 Ph.D. students, who are now having successful careers in academia or industry. Some of them already have a position as associate or (tenured) assistant professors and have received some awards for their Ph.D. theses or research papers.

- I trained 5 post-doctoral researchers, two of whom were hired through grants from research projects that I coordinated. Currently, they are all associate or tenured assistant professors and are working on different research groups. One post-doctoral researcher whom I trained received the 2023 EATCS Young Researcher Award.
- Under my supervision, all students and post-docs I trained published in top journals or conferences of their area, including 24 papers in Scimago Q1 journals or Core A* conference, and 11 papers in Core A conferences.
- I have published 72 papers with supervised students and post-docs, including 32 papers co-authored only with supervised students and post-docs.
- I have been the tutor of 10 Ph.D. students for the Computer Science Ph.D. program at the GSSI.
- I have been regularly teaching in Ph.D. courses since the academic year 2012–2013.
- I have served as the Deputy Director of the Ph.D. program in Computer Science at the GSSI.

Roles and positions held within universities or public research institutions

- I am a member of the Executive Board of the Center of Excellence EX-EMERGE of the University of L'Aquila.
- I have been a member of the Government Board of the Department of Excellence at GSSI.
- I have been the Deputy Director of the Ph.D. program in Computer Science at the GSSI.
- I serve as the coordinator of the Student-Professor Joint Committee (Commissione Paritetica) of GSSI.
- I participated in several institutional academic committees (Presidio Qualità, Commissione Paritetica, etc.), as well as hiring committees for Ph.D. students, postdocs, and assistant professors.
- I participated in the Ph.D. board of a national Ph.D. program.
- I participate in the board of the Computer Science Ph.D. program at the GSSI since 2017.
- I participated in the evaluation and defense committees of Ph.D. students in my Institute and in other Universities, in Italy and abroad.

Industrial research, scientific support to public organizations, and outreach

- I collaborate with private companies (Hipert, Nindo, Radiolabs) to develop industrial applications that apply some of my research results.
- I collaborate with the Center of Excellence EX-EMERGE, which has ongoing collaboration with leading car manufacturers and network providers.
- I coordinate the GSSI site and a work package of a technological transfer project (SCHEDULE).
- I am affiliated or associated with scientific associations (EATCS, CINI, INdAM, GNCS), research institutes (GSSI, INFN), public foundations (FAIR, RESTART), and technological transfer Institutions (EX-EMERGE, Gran Sasso Tech).
- I have held scientific dissemination seminars, courses for high school teachers, and university guidance seminars for high school students.

10 Publications

All the authors contributed equally to the following publications and are listed in alphabetical order, as in the original published versions.

Bibliometrics

	Number of citations	H-index	i10-index
Scopus	2004	22	52
Google Scholar	3270	27	77

Proceedings and edited volumes

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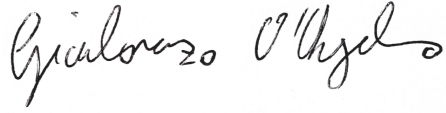
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L'Aquila November 5, 2025

Gianlorenzo D'Angelo

A handwritten signature in black ink, reading "Gianlorenzo D'Angelo". The signature is written in a cursive style with a large, stylized 'G' and 'D'.

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (D.P.R. 28/12/2000 n. 445)

Il Sottoscritto Gianlorenzo D'Angelo, nato a L'Aquila (AQ) il 21/02/1981, residente a L'Aquila (AQ) in via Pier delle Vigne n° 5, codice fiscale DNGGLR81B21A345E

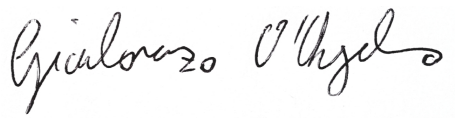
consapevole della responsabilità penale prevista, dall'art. 76 del D.P.R. 445/2000, per le ipotesi di falsità in atti e dichiarazioni mendaci ivi indicate

DICHIARA

di possedere tutti i titoli riportati nel presente curriculum e che le informazioni riportate nel presente curriculum corrispondono a verità.

L'Aquila November 5, 2025

Gianlorenzo D'Angelo

A handwritten signature in black ink, appearing to read 'Gianlorenzo D'Angelo', written in a cursive style.