

Curriculum Vitae

A. General Information

Name	Giuseppe Di Fatta
Current Appointment	Full Professor (“Professore di I fascia”, SSD: ING-INF/05) Faculty of Engineering, Free University of Bozen-Bolzano, Italy
Email	Giuseppe.DiFatta@unibz.it
Memberships	<ul style="list-style-type: none"> ▪ Member of IEEE, the Institute of Electrical and Electronics Engineers, Inc. ▪ Member of the Technical Committee on Machine Learning (TC-ML) of IEEE Systems, Man, and Cybernetics (SMC) Society ▪ Fellow of the Higher Education Academy, U.K., since 2009
Personal homepage	▪ https://www.unibz.it/en/faculties/engineering/academic-staff/person/46582-giuseppe-di-fatta
Research expertise and interests	▪ Machine Learning, Data Science, Multi-task Deep Learning, Explainable Artificial Intelligence, and multidisciplinary data-driven applications

Education and Qualifications

April 2015	Certificate of “Development Programme in First Line Management”, Institute of Leadership and Management (ILM), Reading, UK.
Dec. 2009	Postgraduate Certificate in Academic Practice, University of Reading, UK.
Jan. 2002	Doctor of Philosophy in "Electronic, Computer and Telecommunications Engineering" (spec. in Computer Science), University of Palermo, Italy.
Nov.1995	Integrated Masters (‘Laurea’ Degree) in Electronic Engineering (spec. in Computer Science), University of Palermo, Italy. (Grade: <i>Summa cum Laude</i>)

Previous Appointments

2016-2021	Head of Department of Computer Science, University of Reading, UK
2020-2021	Full Professor of Computer Science, University of Reading, UK
2013-2020	Associate Professor of Computer Science, University of Reading, UK
2006-2013	Lecturer, University of Reading, UK
2004-Aug. 2006	Lecturer (visiting scientist/post-doc contracts), University of Konstanz, DE
2000-2004	Researcher (permanent position), High Performance and Computing Institute (ICAR), National Research Council (CNR), IT
Dec.1998-Nov.1999	Research Fellow (1-year contract), International Computer Science Institute (ICSI), Berkeley, CA, USA
Aug. 1998-Nov.1998	Research Assistant, Institute for Computer Communications and Applications, Ecole Polytechnique Fédérale de Lausanne (EPFL), CH
1996-1998	Research Assistant, Computer Networks Study Centre, CNR, IT

Teaching Experience

Current taught courses	<u>Modules currently taught at the Free University of Bozen-Bolzano:</u> <ul style="list-style-type: none"> - “Codeless Machine Learning in KNIME” (EN) - PhD in Computer Science - ‘Machine Learning’ (EN) - MSc in Computing for Data Science - “Data-driven Decision Making” (EN) - BSc in Informatics and Management of Digital Business
Previous taught courses	Extensive experience in teaching CS to UG, MSc and PhD students since 2000. <u>Modules taught at the University of Reading:</u> <ul style="list-style-type: none"> - Data Science Tools and Algorithms, Data Analytics and Mining - a 2-day training course for the KNIME Certification on Data Science, MSc Finance and Financial Technology, Henley Business School - Programming in Java, “Programming in C/C++ <u>Modules taught (in English) at the University of Konstanz, Germany:</u> <ul style="list-style-type: none"> - Distributed Data Mining, Algorithms in Data Mining, Large-scale Computing for Data Mining, Mining in Molecular Databases, Computer Networks <u>Modules taught (in Italian) at the University of Palermo, Italy:</u> <ul style="list-style-type: none"> - Computer Networks, Computer Programming in C

B. Research and Scholarship

1. Research Outputs (1997-2026)

Prof. Di Fatta's research covers several core areas of Computer Science with primary focus on:

- Machine Learning & Data Science: including multi-task deep learning and scalable learning algorithms,
- Artificial Intelligence: theory and applications in both science and industry,
- Parallel & Distributed Computing: efficient algorithms for large-scale, distributed environments,
- Data-driven applications: applying computational methods in domains like neuroscience (e.g., Alzheimer's diagnosis), and big data analytics.

His work often bridges theoretical foundations (algorithms, scalable computation) with practical, multidisciplinary applications.

In 2004-06 he contributed to the first release of [KNIME](#), a widely used data science/machine learning platform, which was originally developed at the University of Konstanz.

He has authored 140+ peer-reviewed publications across journals, conferences, and book chapters. The full list of publications is available in *Appendix A*.

His [Google Scholar profile](#) shows over 6,200 citations, an h-index of 25, and an i10-index of 53, indicating a strong and sustained research impact.

2. Research grants and awards

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| International Projects | <ul style="list-style-type: none"> - 2024-28 (PI): EU H2024 (HORIZON-CL4-2024-DIGITAL-EMERGING-01) "AI Engineering Suite to support Agile Efficient Software Engineering" (AI4SWEng) - 2019-21 (CI): EU H2020 grant for the infrastructure security project SAFETY4RAILS. - 2019-21 (CI): EU H2020 grant for IOT-&Blockchain-Enabled Security Framework for New Generation Critical Cyber-Physical Systems In Finance Sector (CRITICAL-CHAINS). - 2019 (PI): fund donation for research on Data Science, KNIME (CH). - 2012-13 (PI): British Council, UK-Turkey Knowledge Partnership Programme, HE institutional partnerships 2011 – 2013, partnerships between Yasar University, Turkey, and The University of Reading, UK. - 2012-13 (PI): British Council, coordinator of the Erasmus Intensive Programme "The Future Internet: Moving Social and Mobile", Lifelong Learning Programme. (http://eip2013.reading.ac.uk/) - 2000: 5th EU Framework Program, local organiser of the European School on Intelligent Data Analysis (IDA), Palermo (Italy), March 26-30, 2001, led by the Leiden Institute for Advanced Computer Science, University of Leiden, The Netherlands. (http://www.pa.icar.cnr.it/IDAschool/) - 2000 (PI): Alcatel TWID (Germany), commissioned research study on 'Active Networks', Nov. 2000 - March, 2001. |
| National Projects | <ul style="list-style-type: none"> - 2025-27 (CI), Integrating Remote Sensing and Molecular Diagnostics for Early Detection and Comparative Analysis of targeted Colletotrichum Species in South Tyrol Apple Orchards (IRIS-MoDECT), EG2022 - 2024-26 (CI), Artificial Intelligence Laboratory, EG2230 ERDF 2021-2027 - 2022-25 (PI), Multi-Task Deep Learning (MTDL), IN2815 - 2023-24 (CI), 5G Volley Reality Experience & Analytics Live (5VREAL), EG2219 - 2023-24 (CI), AI Server and Inference Boards for Data-driven AI Model Development and Deployment (AISEE), EG2002 - 2023 (coI) project on AI methods for the early diagnosis of brain strokes, National Pilot Project POS-T2-STROKE, Ministry of Health, Italy - 2003 (CI): project ICAR-SPACI "Southern Partnership for Advanced Computational Infrastructures" funded by Italian Ministry for Industry, "Programma Operativo Nazionale" (PON). - 2002 (CI): sub-contractor for consulting activity in the project "TESCHET" of Engineering S.p.A. funded by Italian Ministry of Industry, 2002-2004. |

- PhD scholarships
- **2022:** KNIME, CH, half scholarship
 - **2017:** Meryl Lynch Bank of America scholarship
 - **2015:** Islamic Development Bank scholarship
 - **2015:** Scholarship of the Ministry of High Education and Scientific Research
 - **2014:** EPSRC scholarship
 - **2012:** Felix scholarship
 - **2010:** EPSRC scholarship
 - **2008:** SSE scholarship
- Consultancy
- **Sept. 2017-March 2018 (PI):** University consultancy contract for the development and validation of a data analysis algorithm for prices of a specific investment asset class (details covered by NDA).
 - **Oct. 2015 (PI):** University consultancy contract with FiscalTec for reviewing AP forensics algorithms, identifying methods to improve accuracy and providing support for the adoption of machine learning algorithms.
- Knowledge Transfer Projects
- **2021-22 (PI, lead academic): Innovate UK Smart Grants** project on fraud detection from NHS procurement data with FiscalTech and UCLH.
 - **2014-16 (PI, lead academic): KTP project** on Big Data mining in distributed document repositories with Exonar Limited.
 - **2014-15 (CI, main academic supervisor): KTP project** on Big Data and IoT with The Mustard Concept (TMC) Limited.
 - **2010-12 (CI): KTP project** on “*eLearning solution for leadership programme*”, World Association of Girl Guides and Girl Scouts (WAGGGS).
 - **2009-11 (CI): KTP project** “*Inference of customer behaviour for the generation of target adverts for the eCommerce web site*”, Just Kampers Ltd.”.
 - **2008-10 (PI): Business+ project** “*The development of an information handling environment for machine interpretation of draught drinks dispense data*”, in partnership with SmartCellar Ltd. Note: grant awarded; however, before start the company withdrew. Grant not included in sum.
- Personal Grants and Awards
- School T&L Excellence Award in recognition of innovative interaction with industry for the development of the KNIME certification in Data Science and its integration in the UG curriculum to enhance students’ employability, 2019.
 - Best paper award, the 9th International Conference on Internet and Distributed Computing Systems (IDCS 2016), Wuhan, China.
 - Grant from the Research Travel Grant Sub-Committee, University of Reading to attend the IEEE ICDM 2014, Shenzhen, China.
 - Grant from the Research Travel Grant Sub-Committee, University of Reading to attend the IEEE ICDM 2013, Dallas, USA.
 - Royal Society International Travel Grant to attend the International Conference on Machine Learning and Applications, Washington DC, Dec. 2010.
 - Grant from the Research Travel Grant Sub-Committee, University of Reading, ICMLA, Washington, USA, 2010.
 - Best paper award, International Conference on Advances in P2P Systems (AP2PS 2010), October 25-30, 2010, Florence, Italy.
 - Grant from the Research Travel Grant Sub-Committee, University of Reading to attend the IEEE CIDM 2009, Nashville, TN, USA.
 - School Award for Outstanding Contributions to Teaching and Learning, School of System Engineering, University of Reading, 2008.
 - Grant, DAAD visiting scientist program (6m), Germany, 2004.
 - Grant, DFG visiting professor program (3m), Germany, 2004.
 - Grant, CNR Short Term Mobility program, Italy, 2001.
 - One-year grant for young researcher, International Computer Science Institute (ICSI), Berkeley, CA-USA, 1999. (In 1999 only two scholarships were available for Italian young researchers). (grant not included in sum)
 - Four-month RA grant, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland, 1998.
 - Two-year scholarship of the Italian National Research Council (CNR), Italy, 1996-1998.

3. Evidence of international esteem

- Invited presentations
- Invited keynote presentation on “Multi-Task Deep Learning” at the International Conference on Advanced Machine Learning and Data Science (AMLDS), 21-23 July 2026, Osaka, Japan.
 - Invited keynote presentation on “Multi-Task Deep Learning” at the 14th EAI International Conference on Big Data Technologies and Applications, 1 November 2024, UK.
 - Invited speaker, “AI in MRI for the diagnosis of neurodegenerative disorders”, Annual Workshop of the of the Italian Group on Magnetic Resonance (GIDRM), 1 December 2022.
 - Invited keynote presentation on “Multi-Task Deep Learning” at the Fortieth SGAI International Conference on Artificial Intelligence (AI-2020), Cambridge, UK, 15 December 2020.
 - Invited keynote presentation at the International Conference on “Computational Intelligence and Data Engineering (ICCIDE)”, Hyderabad, India, 9 Aug. 2020.
 - Invited seminar on “Artificial Intelligence, Machine Learning and Data Science” at World of Work Conference, Henley Business School, University of Reading, UK, 12 Sept 2019.
 - Invited seminars at the 2nd Advanced Course on Data Science & Machine Learning, Certosa di Pontignano, Siena, Italy (survey of data science platforms, training sessions on KNIME, a session on predictive analytics from MRI brain images for Alzheimer’s disease diagnosis), July 15-19, 2019.
 - Invited talk at the Thames Valley Artificial Intelligence (TVAI) meetup, Reading, Berkshire, UK (talk on Introduction to Artificial Intelligence and examples of AI research projects at the Department of Computer Science of the University of Reading), May 16, 2019.
 - Invited seminar at Computer Science and Mathematics Seminars, University of Stirling, UK, on “The Epidemic Paradigm for Decentralised Communication and Computing”, Nov. 2, 2018.
 - Invited seminar at the EURO-PAR 2018 workshop on Parallel and Distributed Computing for Life Sciences (PDCLifeS), August 28, 2018, Torino, Italy
 - Invited keynote presentation on "Data-driven knowledge discovery from Brain Imaging of Alzheimer’s disease patients", IEEE ICMLC 2017, 10 July 2017, Ningbo, China.
 - Invited seminar on "Creativity: Human vs Artificial Intelligence" at "A Journey to Creative Research" event, Shenzhen University, Shenzhen, China, 7 July, 2017.
 - Invited seminar on "Data-driven Knowledge Discovery of Atypical Brain States", UK Symposium on Knowledge Discovery and Data Mining 2016, BCS SGAI - The Specialist Group on Artificial Intelligence, British Computer Society, 21 March 2016.
 - Invited presentation on "Capturing Wellbeing Data-A Data-driven Paradigm Shift", Student Wellbeing in Tertiary Education- Policy in Practice Workshop, University of Reading, June 15, 2015.
 - Invited presentation on "Deciphering Social Media Messages for the UK General Election 2015" at the Workshop on “Big Social Data: Interdisciplinary Analytics”, University of Reading, April 24, 2015.
 - Invited seminar, IEEE UK & Ireland Signal Processing Chapter seminar on “Epidemic Protocols for Extreme-scale Computing”, Faculty of Technology, De Montfort University, Leicester, UK, Nov. 19, 2014.
 - Invited keynote presentation on “Epidemic Protocols for Extreme-scale Computing” at the 7th International Conference on Internet and distributed Computing Systems (IDCS), 22-24 Sept., 2014, Calabria, Italy.
 - Invited keynote presentation on “Epidemic Data Mining: Global Knowledge without Global Communication” at the HiBB Workshop, Euro-Par, Aachen, Germany, August 26-30, 2013.
 - Invited presentation on “Extreme Data Mining”, *Dagstuhl Seminar* (#13251) on “Parallel Data Mining”, June 16-21, 2013.
 - Invited presentation on “KNIME as a Teaching Tool in Higher Education” at the 1st KNIME User Day UK, June 25th 2013, University of Westminster, London.
 - Invited keynote presentation on “Epidemic Protocols in P2P Computing” at the *International Conference on Advances in Peer-to-Peer Systems* (AP2PS), Nov. 20-25, 2011, Lisbon, Portugal.

- Invited presentation on "Data Mining for the Drug Discovery process", at *Vertex Pharmaceuticals*, , Oxfordshire, 10 March 2009.
- Invited half-day tutorial on 'Distributed Data Mining' at ACAI-05, Advanced Course on Knowledge Technologies, at the Jozef Stefan Institute, Ljubljana (Slovenia), June 27 – July 8, 2005.
- Invited tutorial presentation on 'Distributed Association Rule Mining' at the summer school of the Ph.D. Program in Computer and Information Science of the University of Konstanz, St. Vigil, Italy, 18 Sept. 2004.
- Invited half-day tutorial on 'Active Networks' at MILCOM 2002, the IEEE Military Communications Conference, Anaheim, CA, USA, 9 Oct. 2002.
- Half-day report presentation on 'Active Networks' at Alcatel TWID in Stuttgart, Germany, 9 March 2001

4. Evidence of contributions and leadership within the School/Department

- **Head of Department**, Department of Computer Science (UoR), 2016-2021
 - o led the set-up of a new department
 - o meeting the target of a significant extra annual surplus on top of the contribution towards central services
 - o lead the permanent appointment of 10 new academics and admin staff
 - o proposed and established a new University Research Division in Computer Science
 - o proposed and established a new University REF 2021 unit in Computer Science, achieving strong results for the first UoA 11 submission from UoR in about 20 years:
 - GPA 3.07 (UoA11 ranking: 45th)
 - 100% of research impact rated 4* and 3*
- **School Director of Postgraduate Taught Studies**, School of Systems Engineering (UoR), 2015-16
 - o Chair of the PGT Board of Studies including 4 MSc programmes
 - o introduced a scholarship scheme and a marketing campaign to increase intake
 - o introduced a rationalisation for a more efficient sharing of the modules among programmes
 - o unified the management of the final student project among programmes
- **Proposer and Director** (2013-2016) of a new MSc Advanced Computer Science (later renamed Data Science)
 - o This was the first PGT programme in CS at UoR and introduced Data Science and Big Data into the curriculum for the first time.
- Led a proposal to establish a Big Data Analytics lab for PhD students at SSE, 2014-15: established in June 2015
- Led a proposal to establish a Big Data Analytics research computing infrastructure (Hadoop cluster) at SSE, 2013
- Nominated as academic mentor of newly appointed lecturer in Dec.2012 and guided him through probation first and then promotion to Associate Professor.
- Academic mentor for a new lecturer and for a Programme Director (AP), 2017-21.
- Organisation of a series of internal seminars for the research group PEDAL-SSE, 2007-2008.

5. Evidence of contributions and leadership within the wider University

- Member of the Functions workstream panel, Reading-2030 Task Force, University of Reading, with the aim of providing strategic direction and planning, since May 2020
- Member of the Academic Senate, University of Reading, 2018-2020
- Presentation on "Artificial Intelligence, Machine Learning and Data Science", World of Work Conference, Henley Business School, University of Reading, September 2019.
- Presentation on Introduction to AI and AI research projects at the Department of Computer Science (UoR), Thames Valley Artificial Intelligence (TVAI) meetup, Thames Valley Science Park, May 16, 2019.
- Personally collected complete Twitter data sets on the political campaigns related to GE2015, GE2017, BREXIT referendum 2016, GE2019: these enabled several collaborations among various groups of colleagues from CS, Maths, HBS and Economics, UROP projects, a workshop, seminars and publications.
- Contributed the section "Strategy" to the "Report on Internal Discussion Meeting on University Capabilities and Opportunities in the area of Data Science" of Prof. A. O'Neill, University of Reading, Sept. 25, 2015.
- Presentation on "Capturing Wellbeing Data - A Data-driven Paradigm Shift", Student Wellbeing in Tertiary Education - Policy in Practice Workshop, University of Reading, June 15, 2015.
- Presentation on "Deciphering Social Media Messages for #GE2015", Workshop on Big Social Data and Interdisciplinary Analytics, University of Reading, April 24, 2015.
- Invited presentation on "One-Year Experience with the ERASMUS Mobility Programme at the School of Systems Engineering", CSTD Workshop on "Community of Practice for Erasmus and Study Abroad", Nov. 29, 2011.
- Internal reviewer for the project proposal "Completing the Catalogue of Life", Prof. F. A. Bisby, School of Biological Sciences, University of Reading, grant application submitted to BBSRC, 2008. The review was provided upon a personal request by Prof. F. A. Bisby.
- Member of the Institution-Wide Language Programme (IWLP) Advisory Committee, 2007-10.

6. Contribution to research activities at a national/international level

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| Conference Chair and Organizer | <ul style="list-style-type: none"> - IEEE ICDM general Workshops Chair, the 20th IEEE International Conference on Data Mining, Sorrento, Italy, Nov. 17-20, 2020. - Track vice-chair for Data Science, HiPC 2019 - the 26th IEEE Int.l Conference on High Performance Computing, Data, and Analytics, Hyderabad, India. - Funder and co-chair of the IEEE ICDM Workshop on Data Mining in Networks (DaMNet) since 2011: the 9th edition was located in Beijing, China, in 2019. - General Chair (Windsor, UK, 2015) and Co-Chair (2016-2019) of the International Conference on Internet and Distributed Computing Systems, Springer LNCS Proceedings. - Track Chair of the 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC), track on "data intensive computing, data mining, semantic web and information retrieval", Krakow, Poland, 4-6 Nov. 2015. - Program Chair of the 7th International Conference on Internet and Distributed Computing Systems (IDCS 2014). - Organiser of a PhD Summer School, funded by the British Council as Erasmus Intensive Programme, Cumberland Lodge, Windsor, UK, Aug.5-16, 2013. - Co-organiser of the 1st KNIME User Day UK, University of Westminster, London, June 25th, 2013. (KNIME is a popular open source data mining developing environment, originally developed at the University of Konstanz). - Organiser and coordinator of the PhD Summer School on "The Future Internet: Moving Social and Mobile", Erasmus Intensive Programme, British Council, Cumberland Lodge, Windsor, UK, Aug. 5-16, 2013. - Organiser and co-chair of the IEEE CloudCom 2012 Workshop on Data Analytics and Mining in the Cloud (DaMiC), Taipei, Taiwan, Dec. 2012. - General co-chair of the International Conference on Advances in Peer-to-Peer Systems (AP2PS), November 20-25, 2011, Lisbon, Portugal. - Co-organizer of the track "High Performance Networks", 16th International Euro-Par Conference, Ischia, Italy, Sept. 2010. - Session chair at the IEEE International Conference on Scalable Computing and Communications, Bradford, UK, July 2010. - Session chair at the IEEE Symposium on Computational Intelligence and Data Mining, Nashville, USA, March 2009. - Organizer and co-chair of the International Workshop on Distributed Data Mining (DDM-06) in conj. with the 17th European Conference on Machine Learning and the 10th European Conference on Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), Berlin (D), Sept. 2006. - Area chair (Distributed Computing) of the 2nd International Symposium on Computational Life Science, Cambridge University, UK, Sept. 2006. - Organizer and co-chair of the 1st International Workshop on Distributed Computational Life Science, in conjunction with the 1stInt.l Symposium on Computational Life Science, Konstanz, Germany, Sept. 2005. - Local organizer of the European School on Intelligent Data Analysis (IDA2000), Palermo, 18-22 Sept. 2000 funded in the 5th EU Framework Program, co-organized by University of Leiden (The Netherlands), University of Palermo (Italy), ICAR-CNR (Italy). |
| Editorial Activity | <ul style="list-style-type: none"> - Associate Editor of the Elsevier Journal of Network and Computer Applications (JNCA) 2013-2018. (IF: 5.273) - Guest Editor of a special issue on "Research challenges and directions of Data Mining in Edge Computing systems", Computers and Electrical Engineering, Elsevier, 2021. - Guest Editor of a special issue on "Applications of Big Data in Social Sciences", IEEE Access, a Multidisciplinary Open Access Journal (Submission Deadline: 31 October 2018) (Journal IF=3.244) - Guest Editor of a special issue on "Cyber-physical Systems (CPS), Internet of Things (IoT) and Big Data" of the Elsevier Journal of Future Generation Computer Systems, 75, 82-84, 2017. (IF-2016: 3.997) - Guest Editor of a special issue on "Engineering Future Interoperable and Open IoT Systems" of Elsevier JNCA, V.81, 1 March 2017. (IF: 3.5) |

- Guest Editor of the Journal Special Issue on Data Mining in Networks, JNSM Springer, April 2014, Volume 22, Issue 2.
 - Member of the Editorial Advisory Board for the book on "Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications", Information Science Reference, 2009.
- Grant applications reviewer and research awards jury member
- Member of the jury for the Euregio Young Researchers Award (for the Euregio Tirol-Alto Adige-Trentino region), Alpbach (Austria), 20 Aug. 2022.
 - EPSRC Peer Review Associate College member since 2016.
 - Reviewer for MRC grant proposal related to Data Science, 2016.
 - Reviewer for BBSRC grant proposal related to Computer Science, 2014.
 - Member of the Computer Science ad hoc RTI Review Committee, Computer Science Evaluation Group, Natural Sciences and Engineering Research Council of Canada (NSERC), since 2013-15.
 - Reviewer (category: Bioinformatics) for the Netherlands Organisation for Scientific Research (NWO), 2008.
- MSc Programme Quality Assurance Panel
- Chair and member of the External Evaluation Committee (EEC) for the evaluation and accreditation of several HE programmes of study, Cyprus Agency of Quality Assurance and Accreditation in Higher Education (CYQAA), on behalf of the Council of Ministers of the Republic of Cyprus, since 2014.
- Visiting Scientist
- Computer and Information Science Department (Prof. M.R. Berthold), University of Konstanz, Germany, March – Oct. 2004.
 - Leiden Institute for Advanced Computer Science (Prof. Joost Kok), University of Leiden, The Netherlands, Sept. 2001.

C. Quality of Teaching and Leadership

- Evidence of quality of teaching
- Consistently excellent feedback from peers, examiners and periodic review.
 - Excellent feedback from students consistently scoring top student responses in module feedback questionnaires.
 - Asked by the SDTL to contribute to the School guide on T&L good practice as a result of excellent module evaluation feedback, 2019.
 - School Award for Excellence in T&L for developing and implementing a formal accreditation scheme with a leading Data Science platform provider (KNIME), University of Reading, 2019. The Certification has been embedded into the CS curriculum and gives the students a unique experience and opportunity to stand out in the job marked for Data Science.
 - Fellow of the Higher Education Academy, 2009
 - Postgraduate Certificate in Academic Practice, University of Reading, 2009
 - School Award for Outstanding Contributions to Teaching and Learning (new staff category), University of Reading, 2008.
- Evidence of leadership in teaching
- A new NUIST Academy programme "BSc Data Science" approved by the Chinese MoE in 2021. As HoD, I set up the strategy and objectives, closely guided and mentored the Programme Director to achieve this objective, and personally engaged with a visit to NUIST and meetings
 - Outstanding PTES 2019 results (3rd best student satisfaction in the sector), Aug. 2019 in the master programme with cutting-edge content on Data Science with a hands-on approach, which I designed and managed as programme director.
 - As HoD, led the improvement of CS student attainment (+25%) and continuation (+5%) in the last 3 years, setting up a higher T&L standard, making and adjusting delegation of responsibilities, monitoring and mentoring colleagues in key roles.
 - As HoD, I have managed to cope with a particularly high student-staff ratio. This required not only carefully planning of teaching allocation, but also a significant effort in keeping the staff motivated while under pressure.
 - Academic mentor of newly appointed staff members, 2012-17: I provided support and mentorship for probation, T&L development, research development.
 - Mentored colleagues in successful rewarding and promotion cases.
 - Academic mentor of a junior staff member and a senior staff member.
 - Involvement in externally funded T&L projects: PI and coordinator of the project

"Industry informed curriculum development in the area of ICT", UK-Turkey Knowledge Partnership Programme 2012–14, British Council.

D. Other activities

Administrative and academic tasks

- Programme Director of the MSc Computing for Data Science, Free University of Bozen-Bolzano, 2023-25
- Programme Director of the BSc Informatics and Management of Digital Business, Free University of Bozen-Bolzano, 2022-23
- Head of Department of Computer Science, University of Reading, 2016-2021
 - o Established a new Department: appointed 13 academic and admin staff members, and a few sessionals.
 - o Infused renewed morale and motivation in initial staff, while integrating new young staff
 - o Exceeded financial targets every year
 - o Established REF 2021 UoA-11 group and Research Division in CS, 2018
 - o Refurbished and redecorated common space and many labs
 - o Set higher standard for both staff and students
- School Director of Postgraduate Taught Studies, 2015-16
- Programme Director of the MSc Advanced Computer Science, 2013-16
- Member of the School Internationalisation work-group, 2011-14
- Departmental Study Abroad and Erasmus Coordinator, 2010-2013
- UG School Admission Tutor, 2010-2011
- Deputy UG School Admission Tutor, 2008-2010
- Member of the School IT and Technical Committee (SITTC), 2009-10
- Internal examiner for UG programmes, 2009-2011
- Tutor and supervisor of undergraduate students
- Reviewer of applications for PhD candidates, since 2007
- Internal reviewer and moderator of examination papers, since 2006

February 4, 2026
Giuseppe Di Fatta

Appendix A: Full List of Publications

Refereed Journal Publications and Book Chapters (31):

1. A. S. Atalay, Ö. Öztin, A. Kanak, İ. Arif, A. Badii, N. S. Dasari, S. Ergün, S. H. Ergün, O. Herkiloğlu, G. Mermoud, P. Papotti, M. Tiemann, P. Gallegos, M. van Gasteren, D. I. Fotiadis, O. Hasekioglu, V. Pezoulas, D. Wannier, G. Di Fatta, A. Rosani, A. Collen, N. A. Nijdam, AI4SWEEng manifest: Empowering the future of software engineering with advanced trustworthy artificial intelligence, *Open Research Europe* 5, 352. [DOI](#)
2. G. Di Fatta, G. Nicosia, V. Ojha, P. Pardalos, Multi-Task Deep Learning as Multi-Objective Optimization, *Encyclopedia of Optimization*, Springer, pp. 1-10, 2023. [DOI](#)
3. A. Varzandian, M.A. Sanchez Razo, M.R. Sanders, A. Atmakuru, and G. Di Fatta, Classification-biased apparent brain age for the prediction of Alzheimer's disease, *Frontiers in Neuroscience*, 2021. (IF-2022: 5.152) [DOI](#)
4. X. Hong, R. Mitchell, G. Di Fatta, Simplex Basis Function Based Sparse Least Squares Support Vector Regression, *Elsevier Neurocomputing* vol. 330, 22 Feb. 2019, pp. 394-402 (IF-2022: 5.779) [DOI](#)
5. G. Di Fatta, Association Rules and Frequent Patterns, Chapter 20333, *Encyclopedia of Bioinformatics and Computational Biology*, Elsevier, Vol.1, 2019, pp. 367-373. [available online 6 Sept. 2018] [DOI](#)
6. M. Mariani, G. Di Fatta, M. Di Felice, Understanding Customer Satisfaction with Services by leveraging Big Data: the Role of Services Attributes and Consumers' Cultural Background, *IEEE Access*, Vol. 7, pp. 8195-8208, 18 December 2018. (IF-2017: 5.16) [DOI](#)
7. S. Al Ghamdi, G. Di Fatta, Efficient Clustering Techniques on Hadoop and Spark, *International Journal of Big Data Intelligence*, 2019. [accepted on August 15, 2018] [DOI](#)
8. T. Le, F. Stahl, M.M. Gaber, J.B. Gomes, G. Di Fatta, On Expressiveness and Uncertainty Awareness in Rule-based Classification for Data Streams, *Neurocomputing*, Elsevier, V. 265, 22 Nov. 2017, pp. 127-141. (IF-2016: 3.317) [DOI](#)
9. P. Poonpakdee, G. Di Fatta, Robust and Efficient Membership Management in Large-scale Dynamic Networks, *Elsevier Journal of Future Generation Computer Systems*, March 1, 2017. (IF-2016: 3.997) [DOI](#)
10. A. Katti, G. Di Fatta, T. Naughton, C. Engelmann, Epidemic failure detection and consensus for extreme parallelism, *Int.l Journal of High Performance Computing Applications*, Feb. 2017. (IF-2016: 2.097) [DOI](#)
11. B. R. Salehe, C. I. Jones, G. Di Fatta, and L. McGuffin, RAPIDS NPs: A new computational pipeline for rapidly identifying key genetic variants reveals previously unidentified SNPs that are significantly associated with individual platelet responses, *PLoS ONE*, 12 (4), 2017. (IF-2015: 4.411) [DOI](#)
12. C. Wrench, F. Stahl, G. Di Fatta, V. Karthikeyan, D. Nauck, Data Stream Mining of Event and Complex Event Streams: A Survey of Existing and Future Technologies and Applications in Big Data, *Enterprise Big Data Engineering, Analytics, and Management, Advances in Business Information, Systems and Analytics (ABISA) Book Series*, IGI Global, book chapter, Vol.24, Ch.3, 2016.
13. E.E. Bron et al., Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: the CADDementia challenge, *NeuroImage*, an Elsevier Journal of Brain Function, available on line:31 Jan. 2015. (IF: 6.132) [DOI](#)
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