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[Stefano e Coniglio] CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	CONIGLIO
NOME	STEFANO
DATA DI NASCITA	06/04/1983

(IL CURRICULUM FIRMATO SEGUE DALLA PAGINA SUCCESSIVA)

Data

12/07/2021

Luogo

Southampton, Regno Unito

Stefano Coniglio

Curriculum Vitae

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🌐 www.southampton.ac.uk/maths/about/staff/sc2r15.page

Nationality: Italian
Birthday: April, 6 1983



Academic appointments

- 2020– **Associate Professor of Operational Research**, *Department of Mathematical Sciences*, University of Southampton, Southampton, UK.
- 2016–20 **Lecturer (Assistant Professor) in Operational Research**, *Department of Mathematical Sciences*, University of Southampton, Southampton, UK.
- 2019 **Visiting Professor**, *Université Paris Dauphine*.
- 2018 **Visiting Professor**, *Politecnico di Milano*.
- 2018 **Visiting Professor**, *Université Paris Dauphine*.
- 2012–16 **Postdoctoral researcher**, *Lehrstuhl II für Mathematik (Department of Mathematics II)*, RWTH Aachen University, Aachen, Germany, Discrete Optimization group headed by Prof. Arie Koster.
- 2011–12 **Postdoctoral researcher**, *Dipartimento di Elettronica e Informazione (Department of Electronics and Computer Science)*, *Politecnico di Milano, Italy*, Operations Research group headed by Prof. F. Maffioli.
- 2010 **Visiting scholar**, *Tepper School of Business, Carnegie-Mellon University, Pittsburgh, US, Pennsylvania*, Supervisor: Prof. F. Margot.

Qualifications

- 2021 **National Scientific Qualification (Abilitazione Scientifica Nazionale) as Associate Professor - sector “01/B1 Informatica”**.
- 2020 **National Scientific Qualification (Abilitazione Scientifica Nazionale) as Associate Professor - sector “01/A6 Ricerca Operativa”**.
- 2017 **Fellow of the Higher Education Academy**, awarded in recognition of attainment against the “UK Professional Standards Framework” for teaching and learning support in higher education.
Recognition reference: PR139371
- 2008–11 **PhD in Information Technology (awarded: 16.02.2011)**, *Dipartimento di Elettronica e Informazione (Department of Electronics and Computer Science, Operations Research Group)*, *Politecnico di Milano*, Advisor: Prof. E. Amaldi.
Thesis: *On coordinated cutting plane generation and mixed integer programs with nonconvex 2-norm constraints*.
- 2005–07 **MSc in Engineering of Computing Systems (awarded: 20.12.2007)**, *Politecnico di Milano*, Grade: 110/110 cum laude.
Thesis: *Hyperplane clustering and piecewise linear model fitting*.
- 2002–05 **BSc in Engineering of Computing Systems (awarded: 28.09.2005)**, *Politecnico di Milano*, Grade: 110/110 cum laude.
Thesis: *New constructive heuristics for finding minimal fundamental cycle bases in graphs*.

Research grants

- 2020–22 **Co-Recipient of Recipient of a Royal Society and China National Science Foundation International Exchange Grant**, budget: 12,000 GBP.
- 2020–21 **Co-Investigator of the “Economic Ageing of Transformers” project**, total budget: £446,814 GBP, £229,054 allocated to the subproblem I am responsible for, funded by the National Grid.
- 2018–19 **Recipient of the Paris Dauphine Visiting Professor Grant**, budget: 2,900 GBP, granted by Université Paris Dauphine.
- 2018–19 **Co-recipient of the ESRC Impact Acceleration ‘Next Generation Services’ fund**, budget: 3494.40 GBP, granted by the University of Southampton.

- 2017–18 **Recipient of the Paris Dauphine Visiting Professor Grant**, *budget: 2,900 GBP*, granted by Université Paris Dauphine.
- 2017–18 **Recipient of CORMSIS Visitor Fund**, *budget: 800 GBP*, invited visitor: Dr. Stefano Gualandi.
- 2017–18 **Co-recipient of the SIRDF-FBLA Strategic Interdisciplinary Research Development Fund 2017/2018**, *budget: 6,789 GBP*, granted by the Faculty of Business, Law and Arts, University of Southampton.
Project title: *W-GREENBELT: Workshop on GREEN and BluE Logistics and Transport*.
- 2016–17 **Co-recipient of the SIRDF-FHSMS Strategic Interdisciplinary Research Development Fund 2016/2017**, *budget: 6,959 GBP*, granted by the Faculty of Social, Human and Mathematical Sciences, University of Southampton.
Project title: *Hierarchical optimization techniques for forecasting*.
- 2016–17 **Recipient of CORMSIS Visitor Fund**, *budget: 800 GBP*, invited visitor: Prof. Ted Ralphs.
- 2015–16 **Recipient of the RWTH Start-Up grant for early-career researchers**, *budget: 20,000 EUR*, granted by RWTH Aachen University.
Project title: *From the simplex method to cutting plane algorithms: bound-optimal cuts and bound-improving pivoting rules*.

Participation to research projects and consultancy activities

- 2020–21 **Economic Ageing of Transformers**, *funded by the National Grid, UK*.
Development of optimization algorithms for assessing the economical impact of updating the ratings of transformers
- 2018 **UK Met Office, Exeter, UK**.
Development of optimization algorithms for personnel rostering subject to fairness and cyclicity constraints.
- 2014–16 **Robust optimization of power networks**, *funded by BMWi, Bundesministerium für Wirtschaft und Energie (Federal ministry for economy and energy), Germany*, industrial partner: ProCom GmbH, university: RWTH Aachen University.
- 2013–16 **VINO: Virtual Network Optimization**, *funded by BMBF, Bundesministerium für Bildung und Forschung (Federal ministry for education and research), Germany*, university: RWTH Aachen University.
- 2012–13 **Robust Mixed-Integer Linear Programming**, *funded by Google Inc.*, university: RWTH Aachen University.
- 2011–12 **Planning and operation of IP networks with low energy consumption**, *funded by Lombardy Region (Italy), within the project “Green ICT & ICT for Green”*, university: Politecnico di Milano.
- 2011–12 **CESI (Centro Elettronica Sperimentale Italiano, Italian Center for Experimental Electronics)**, *Milan, Italy*.
Development of Mixed-Integer Linear Programming techniques to solve optimal power flow, outage minimization, and unit commitment problems in the Italian power network.
- 2011 **Coordinated cutting plane methods for integer linear programming**, *funded by MIUR, Ministero dell’Istruzione, dell’Università e Ricerca (Ministry for education, university, and research), Italy*, university: Politecnico di Milano.
- 2008–10 **DECEMbRIA: decisions in health-care emergencies**, *funded by Lombardy Region, Health-care Directorate-General (Italy)*, partner: 118 Emergency Service operations center, university: Politecnico di Milano.

PhD dissertation

- [D1] **On coordinated cutting plane generation and mixed integer programs with nonconvex 2-norm constraints**, Dipartimento di Elettronica e Informazione, Politecnico di Milano, 2011.

Edited volumes

- [E1] **Computational Logistics: 8th International Conference, ICCL 2017, Southampton, United Kingdom, October 18-20, 2017, Proceedings**, with T. Bektas, T. Martinez-Sykora, S. Voß, Lecture Notes in Computer Science, Springer, volume 10572.

Chapters in books

- [C1] **A Unified Framework for Multistage Discrete Optimization**, with T. Ralphs, “Bilevel optimization: advances and next challenges”, Dempe, S., Zemkoho, A., eds., Springer, 513–560, 2020.

Journal papers

- [J18] **Optimizing over the Closure of Rank Inequalities with a Small Right-Hand Side for the Maximum Stable Set problem via Bilevel Programming**, with *S. Gualandi*, accepted for publication on INFORMS Journal on Computing.
- [J17] **On the exact separation of cover inequalities of maximum depth**, with *D. Catanzaro, F. Furini*, Optimization Letters, published online on 1st May 2021.
- [J16] **Airport Capacity Extension, Fleet Investment, and Optimal Aircraft Scheduling in a Multi-Level Market Model: Quantifying the Costs of Imperfect Markets**, with *M. Sirvent, M. Weibelzahl*, OR Spectrum 43 (2), 367–408.
- [J15] **A new combinatorial branch-and-bound algorithm for the Knapsack Problem with Conflicts**, with *F. Furini, P. San Segundo*, European Journal of Operational Research, 2021, doi: 10.1016/j.ejor.2020.07.023.
- [J14] **Elastic traffic engineering subject to a fair bandwidth assignment via bilevel programming**, with *L. Gianoli, E. Amaldi, A. Capone*, IEEE/ACM Transactions on Networking, 2020, doi: 10.1109/TNET.2020.3007572.
- [J13] **A lexicographic pricer for the fractional bin packing problem**, with *F. D’Andreagiovanni, F. Furini*, Operations Research Letters, 47(6), 622–628, 2019.
- [J12] **Computing a Pessimistic Leader-Follower Equilibrium with Multiple Followers: the Mixed-Pure Case**, with *A. Marchesi, N. Gatti*, Algorithmica, 82(5), 1189–1238, 2019.
- [J11] **Leadership in Singleton Congestion Games: What is Hard and What is Easy**, with *A. Marchesi, M. Castiglioni, N. Gatti*, Artificial Intelligence (AIJ): 227, 1–31, 2019.
- [J10] **Bilevel programming methods for computing single-leader-multi-follower equilibria in normal-form and polymatrix games**, with *N. Basilico, A. Marchesi, N. Gatti*, EURO Journal on Computational Optimization, 8(1), 3–31, 2019.
- [J9] **A new branch-and-bound algorithm for the maximum edge-weighted clique problem**, with *P. San Segundo, F. Furini, I. Ljubic*, European Journal of Operational Research (EJOR): 278 (1), 76–90, 2019.
- [J8] **Lot sizing with storage losses under demand uncertainty**, with *A. Koster, N. Spiekermann*, Journal of Combinatorial Optimization 36: 763–788, 2018.
- [J7] **A workload-dependent task assignment policy for crowd-sourcing**, with *I. Catallo, P. Fraternali, D. Martinenghi*, World Wide Web Journal: 20 (6): 1179–1210, 2017.
- [J6] **Discrete optimization methods to fit piecewise-affine models to data**, with *E. Amaldi, L. Taccari*, Computers and Operations Research, 75: 214–230, 2016.
- [J5] **Data Uncertainty in Virtual Network Embedding: Robust Optimization and Protection Levels**, with *A. Koster, M. Tieves*, Journal of Network and Systems Management, 24(3): 681–710, 2016.
- [J4] **Coordinated cutting plane generation via multi-objective separation**, with *E. Amaldi, S. Gualandi*, Mathematical Programming, series A, 143(1–2): 87–110, 2014.
- [J3] **Network optimization problems subject to max-min fair flow allocation**, with *E. Amaldi, A. Capone, L. Gianoli*, IEEE Communications Letters, 17(7): 1463–1466, 2013.
- [J2] **A distance-based point reassignment heuristic for the k -hyperplane clustering problem**, with *E. Amaldi*, European Journal of Operations Research, 227(1): 22–29, 2013.
- [J1] **On coordinated cutting plane generation and mixed integer programs with nonconvex 2-norm constraints**, *single author*, 4OR: A Quarterly Journal of Operations Research, 11(1): 95–96, 2013.

Peer-reviewed papers published in conference proceedings

- [P24] **Private Bayesian Persuasion with Sequential Games**, with *N. Celli, N. Gatti*, AAAI Conference on Artificial Intelligence AAAI, New York, US, 2020.
Proceedings of 37th AAAI
- [P23] **Computing Optimal Ex Ante Correlated Equilibria in Two-Player Sequential Games**, with *A. Celli, N. Gatti*, International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Montreal, Canada, 2019.
Proceedings of the 18th AAMAS
- [P22] **Leadership in Singleton Congestion Games**, with *A. Marchesi, N. Gatti*, International Joint Conference on Artificial Intelligence (IJCAI), Stockholm, Sweden, 2018.
Proceedings of the 27th IJCAI, pages: 447–453

- [P21] **Facility location with item storage and delivery**, with *J. Fliege, R. Walton*, Optimization and Decision Science (ODS), Sorrento, Italy, 2017.
Springer Proceedings in Mathematics and Statistics, A. Sforza, C. Sterle, eds., 2017
- [P20] **On the separation of topology-free rank inequalities for the max stable set problem**, with *S. Gualandi*, International Symposium on Experimental Algorithms (SEA), London, UK, 2017.
Leibniz International Proceedings in Informatics, pages 21:1–29:13, 2017
- [P19] **Pessimistic Leader-Follower Equilibria with Multiple Followers**, with *N. Gatti, A. Marchesi*, International Joint Conference on Artificial Intelligence (IJCAI), Melbourne, Australia, 2017.
Proceedings of the 26th IJCAI, pages: 171–177
- [P18] **Bilevel programming approaches to the computation of optimistic and pessimistic leader-multi-follower equilibria**, with *N. Basilico, N. Gatti, A. Marchesi*, International Symposium on Experimental Algorithms (SEA), London, UK, 2017.
Leibniz International Proceedings in Informatics, pages 31:1–31:14, 2017
- [P17] **On robust lot sizing problems with storage deterioration, with applications to heat and power cogeneration**, with *A. Koster, N. Spieckermann*, International Symposium on Combinatorial Optimization (ISCO), Vietri Sul Mare, Salerno, Italy, 2016.
Combinatorial Optimization, LNCS, 9849: 26–37, 2016
- [P16] **Methods for Finding Leader-Follower Equilibria with Multiple Followers**, with *N. Basilico, N. Gatti*, International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2016), Singapore, 2016.
- [P15] **On the generation of cutting planes which maximize the bound improvement**, with *M. Tieves*, International Symposium on Experimental Algorithms (SEA), Paris, France, 2015.
Experimental Algorithms, LNCS, 9125: 97–109, 2015
- [P14] **Virtual network embedding under uncertainty: exact and heuristic approaches**, with *A. Koster, M. Tieves*, International Conference on Design of Reliable Communication Networks (DRCN), Kansas City, US, Missouri, 2015.
IEEE Xplore, 10.1109/DRCN.2015.7148978, 1–8, 2015
- [P13] **On the computational complexity of the virtual network embedding problem**, with *A. Koster, M. Tieves*, International Network Optimization Conference (INOC), Warsaw, Poland, 2015.
Electronic Notes in Discrete Mathematics, 52: 213–220, 2016
- [P12] **Maximum throughput network routing subject to fair flow allocation**, with *E. Amaldi, L. Taccari*, International Symposium on Combinatorial Optimization (ISCO), Lisbon, Portugal, 2014.
Combinatorial Optimization, LNCS, 8596: 1–12, 2014.
- [P11] **Bound-optimal cutting planes**, *single author*, Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), Enschede, Netherlands, 2013.
- [P10] **Energy-aware traffic engineering with elastic demands and MMF bandwidth allocation**, with *E. Amaldi, A. Capone, L. Gianoli*, IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD), IEEE, Berlin, Germany, 2013.
IEEE Xplore, 10.1109/CAMAD.2013.6708111, 169–174, 2013
- [P9] **On single-path network routing subject to max-min fair flow allocation**, with *E. Amaldi, L. Gianoli, C. Ileri*, International Network Optimization Conference (INOC), Tenerife, Spain, 2013.
Electronic Notes in Discrete Mathematics, 41: 543–550, 2013
- [P8] **k -Piecewise Affine Model Fitting: Heuristics based on multiway linear classification**, with *E. Amaldi, L. Taccari*, Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), Munich, Germany, 2012.
- [P7] **The impact of the norm on the k -Hyperplane Clustering problem: relaxations, restrictions, approximation factors, and exact formulations**, *single author*, Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), Frascati (Rome), Italy, 2011.
- [P6] **Formulations and heuristics for the k -Piecewise Affine Model Fitting problem**, with *E. Amaldi, L. Taccari*, Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), Frascati (Rome) Italy, 2011.
- [P5] **Improving cutting plane generation with 0-1 inequalities by bi-criteria separation**, with *E. Amaldi, S. Gualandi*, International Symposium on Experimental Algorithms (SEA), Ischia (Naples), Italy, 2010.
Experimental Algorithms, LNCS, 6049: 266–275, 2010
- [P4] **Single and multi-group evacuation in medium and maxi health-care emergencies**, with *E. Amaldi, C. Iuliano*, Operations Research Applied to Health Services Conference (ORAHs), Genoa, Italy, 2010.

- [P3] **Optimization models for injured people evacuation in medium/maxi health-care emergencies**, with *E. Amaldi, C. Iuliano*, Workshop on Health Care Management (WHCM), IEEE, Venice, Italy, 2010. IEEE Xplore, 10.1109/WHCM.2010.5441250, 1–6, 2010
- [P2] **k -hyperplane clustering problem: column generation and a metaheuristic**, with *E. Amaldi, K. Dhyan*, Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), Paris, France, 2009.
- [P1] **An adaptive point-reassignment metaheuristic for the k -hyperplane clustering problem**, with *E. Amaldi*, Metaheuristic International Conference (MIC), Hamburg, Germany, 2009.

Papers under revision (submitted)

- [S3] **Energy Storage Operation and Electricity Market Design: On the Market Power of Monopolistic Storage Operators**, with *E. Bjorndal, M. Bjorndal, M.-F. Körner, C. Leinauer, M. Weibelzahl*, under revision for European Journal of Operational Research.
- [S2] **Deep learning methods for screening patients' S-ICD implantation eligibility**, with *A. Dunn, M. ElRefai, P. Roberts, B. Wiles, A. Zemkoho*, under revision for Artificial Intelligence in Medicine.
- [S1] **Maximizing submodular utility functions combined with a set-union operator over a discrete set**, with *F. Furini, I. Ljubic*, under revision for Mathematical Programming.

Posters

- [T6] **Using Mathematical Optimisation and Game Theory to improve the speed of broadband connections over the Internet**, with *E. Amaldi, A. Capone, L. Gianoli*, STEM for Britain, House of Commons (Westminster), London, UK, 2017.
- [T5] **Methods for Finding Leader-Follower Equilibria with Multiple Followers**, with *N. Basilico, N. Gatti*, International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2016), Singapore, 2016.
- [T4] **On the exact separation of rank inequalities for the maximum stable set problem**, with *S. Gualandi*, Integer Programming and Combinatorial Optimization (IPCO), Bonn, Germany, 2014.
- [T3] **(Beyond) sequentially coordinated cutting plane generation for inequalities with integer coefficients**, with *E. Amaldi, S. Gualandi*, Mixed Integer Programming Workshop (MIP), Waterloo, Canada, Ontario, 2011.
- [T2] **Exact bi-criteria cutting plane generation for inequalities with 0-1 coefficients**, with *E. Amaldi, S. Gualandi*, Mixed Integer Programming Workshop (MIP), Atlanta, US, Georgia, 2010.
- [T1] **Towards a decision support system for injured people evacuation in medium/maxi emergencies**, with *E. Amaldi, C. Iuliano*, PhD Alumni Association Meeting (PhDei), Milan, Italy, 2009.

Invited seminars

- [M15] **Integer programming and norm minimization for data science**, *Invited by Prof. E. Messina*, Università di Milano, Bicocca, Milan (virtually), 2021.
- [M14] **The bin packing problem with item class setups**, *Invited by Prof. E. Amaldi*, Politecnico di Milano, Department of Electronics, Information, and Biotechnologies, Milan, 2019.
- [M13] **Bilevel programming and the computation of pessimistic single-leader-multi-follower equilibria in Stackelberg games**, *Invited by Dr. T. Oertel*, Cardiff University, Department of Mathematics, Cardiff, 2019.
- [M12] **Computing Optimistic and Pessimistic Leader-Follower Equilibria with Multiple Followers**, *Invited by Dr. R. Misener*, Imperial College London, Department of Computing, London, 2018.
- [M11] **Network routing through the Internet as a Stackelberg game**, *Invited by Prof. T. Ralphs*, Lehigh University, Department of Industrial and Systems Engineering, Bethlehem, US, Pennsylvania, 2018.
- [M10] **Exact single level and bilevel programming approaches to the computation of Leader-Follower Nash Equilibria in games with many followers**, *Invited by Dr. L. Tran-Thanh*, University of Southampton, AIC (Agents, Interactions and Complexity) seminar series, Department of Electronics and Computer Science, Southampton, 2017.
- [M9] **Network routing through the Internet as a Stackelberg game**, *Invited by Prof. H. Xu*, University of Southampton, Business Advisory Board meeting, CORMSIS (Centre for Operational Research, Management Science and Information Systems), University of Southampton, 2017.

- [M8] **Exact single level and bilevel programming approaches to the computation of Leader-Follower Nash Equilibria in games with many followers**, *Invited by Dr. S. Gualandi*, Pavia University, Pavia, 2017.
- [M7] **Network routing through the Internet as a Stackelberg game**, *Invited by Prof. A. Koster*, RWTH Aachen University, Aachen, 2017.
- [M6] **Computing Leader-Follower Nash Equilibria in games with many followers via optimistic and pessimistic bilevel programming**, *Invited by Prof. A. Koster*, RWTH Aachen University, Aachen, 2016.
- [M5] **On bilevel programming and the computation of Leader-Follower (Nash) Equilibria in games with many followers**, *Invited by Prof. N. Gatti*, Politecnico di Milano, Milan, 2016.
- [M4] **(Bilevel programming and) bound-optimal cutting plane generation**, *Invited by Prof. T. Ralphs*, Department of Industrial and Systems Engineering, Lehigh University, Bethlehem, US, Pennsylvania, 2015.
- [M3] **On the exact separation of rank inequalities for the maximum stable set problem**, *Invited by Dr. F. D'Andreagiovanni*, Zuse Institute Berlin (ZIB), Berlin, Germany, 2014.
- [M2] **Coordinated cutting plane generation via multi-objective separation and extensions**, *Invited by Prof. A. Koster*, RWTH Aachen University, Aachen, Germany, 2012.
- [M1] **Applications of exact mathematical programming**, *Invited by Dr. M. Pozzi*, Centro Elettronica Sperimentale Italiano, Italian Center for Experimental Electronics (CESI), Milan, Italy, 2011.

Conference presentations

- [O25] **Decomposition methods for maximizing a submodular function combined with a set-union operator**, *with F. Furini, I. Ljubic*, 3rd IMA/OR Society Conference, Online, 2021.
- [O24] **Decomposition methods for maximizing a submodular function combined with a set-union operator**, *with F. Furini, I. Ljubic*, International Conference on Optimization and Decision Science (ODS), Online, 2020.
- [O23] **Computing Pessimistic Leader-Follower Equilibria with Multiple Followers (in the mixed-pure case)**, *with N. Gatti, A. Marchesi*, International Symposium on Mathematical Programming (ISMP), Bordeaux, France, 2018.
- [O22] **Computing Leader-follower equilibria with multiple followers under the assumption of pessimism in the mixed-pure case**, *with N. Gatti, A. Marchesi*, International Workshop on Bilevel Programming (IWOBP), Lille, France, 2018.
- [O21] **On the separation of topology-free rank inequalities for the max stable set problem**, *with S. Gualandi*, International Symposium on Experimental Algorithms (SEA), London, UK, 2017.
Leibniz International Proceedings in Informatics, pages 21:1–29:13, 2017
- [O20] **Bilevel programming approaches to the computation of optimistic and pessimistic leader-multi-follower equilibria**, *with N. Basilico, N. Gatti, A. Marchesi*, International Symposium on Experimental Algorithms (SEA), London, UK, 2017.
Leibniz International Proceedings in Informatics, pages 31:1–31:14, 2017
- [O19] **On the computational complexity of the virtual network embedding problem**, *with A. Koster, M. Tieves*, International Network Optimization Conference (INOC), Warsaw, Poland, 2015.
Electronic Notes in Discrete Mathematics, 52: 213–220, 2016
- [O18] **On the generation of cutting planes which maximize the bound improvement**, *with M. Tieves*, International Symposium on Experimental Algorithms (SEA), Paris, France, 2015.
Experimental Algorithms, LNCS, 9125: 97–109, 2015
- [O17] **Dynamic robust optimization approaches to lot sizing**, *with A. Koster, N. Spiekermann, L. Taccari*, Modeling and optimization: theory and applications (MOPTA), Bethlehem, US, Pennsylvania, 2015.
- [O16] **Applications of bilevel programming to cutting plane generation**, *with M. Tieves, S. Gualandi*, International Symposium on Mathematical Programming (ISMP), Pittsburgh, US, Pennsylvania, 2015.
- [O15] **Bound optimal cutting planes: on the generation of cuts which maximize the bound improvement**, Annual Conference of the French Operations Research Society (ROADEF), Marseille, FR, 2015.
- [O14] **Maximum throughput network routing subject to fair flow allocation**, *with E. Amaldi, L. Taccari*, International Symposium on Combinatorial Optimization (ISCO), Lisbon, Portugal, 2014.
Combinatorial Optimization, LNCS, 8596: 1–12, 2014.
- [O13] **Bound-optimal cutting planes**, *single author*, Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), Enschede, Netherlands, 2013.

- [O12] **Virtual network embedding with network design elements: reservation of physical resources**, with A. Koster, M. Tieves, INFORMS Annual Meeting, San Francisco, US, California, 2014.
- [O11] **On the generation of cuts which maximize the bound improvement**, with M. Tieves, Annual Conference of the Italian Operational Research Society (AIRO), Como, Italy, 2014.
Within the “Mixed-integer linear programming” organized session, chaired by myself and S. Gualandi.
- [O10] **On the exact separation of rank inequalities for the stable set problem**, with S. Gualandi, International Symposium on Combinatorial Optimization (ISCO), Lisbon, Portugal, 2014.
- [O9] **Bilevel optimization models for traffic engineering with elastic demands and fair flow allocation**, with E. Amaldi, A. Capone, L. Gianoli, INFORMS Telecommunications Conference (INFORMS TELECOM), Lisbon, Portugal, 2014.
- [O8] **Valid inequalities and lifting for the 0-1 Gamma-robust knapsack problem**, with C. Büsing, A. Koster, European Conference on Operational Research (EURO), Rome, Italy, 2013.
- [O7] **Spatial branch-and-bound for nonconvex Euclidean norm constrained mathematical programs**, with F. Margot, International Symposium on Mathematical Programming (ISMP), Berlin, Germany, 2012.
- [O6] **The impact of the norm on the k -Hyperplane Clustering problem: relaxations, restrictions, approximation factors, and exact formulations**, single author, Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), Frascati (Rome), Italy, 2011.
- [O5] **Multi-objective separation for sequentially coordinated cutting plane generation**, with E. Amaldi, S. Gualandi, Combinatorial Optimization Workshop (COW), Aussois, France, 2011.
- [O4] **Improving cutting plane generation with 0-1 inequalities by bi-criteria separation**, with E. Amaldi, S. Gualandi, International Symposium on Experimental Algorithms (SEA), Ischia (Naples), Italy, 2010.
Experimental Algorithms, LNCS, 6049: 266–275, 2010
- [O3] **An adaptive point-reassignment metaheuristic for the k -hyperplane clustering problem**, with E. Amaldi, Metaheuristic International Conference (MIC), Hamburg, Germany, 2009.
- [O2] **k -Hyperplane Clustering: an adaptive point-reassignment algorithm**, with E. Amaldi, International Symposium on Mathematical Programming (ISMP), Chicago, US, Illinois, 2009.
- [O1] **Discrete optimization algorithms for the k -hyperplane clustering problem**, with E. Amaldi, K. Dhyani, Annual Conference of the Italian Operational Research Society (AIRO), Ischia (Naples), Italy, 2008.

Technical reports

- [R3] **Optimal offline virtual network embedding with rent-at-bulk aspects**, with B. Grimm, A. Koster, M. Tieves, A. Werner, preprint available on arXiv at: <http://arxiv.org/abs/1501.07887>.
- [R2] **Optimal power flow and outage minimization**, Technical Report, CESI, 2011.
- [R1] **Q-sample sharing via q-similarity: new strategies for accelerating q-learning algorithms**, with M. Matteucci, Technical Report 2009.16, Dipartimento di Elettronica e Informazione, Politecnico di Milano, 2009.

Visits for scientific collaborations

- [I11] **Dauphine University, Paris**, November 2019, invited by Dr. F. Furini.
- [I10] **Dauphine University, Paris**, June/July 2019, invited by Dr. F. Furini.
- [I9] **Dauphine University, Paris**, October 2018, invited by Dr. F. Furini.
- [I8] **Dauphine University, Paris**, May 2018, invited by Dr. F. Furini.
- [I7] **Lehigh University, Bethlehem**, April 2018, invited by Prof. T. Ralphs.
- [I6] **RWTH Aachen University, Aachen**, March 2017, invited by Prof. A. Koster.
- [I5] **RWTH Aachen University, Aachen**, April 2016, invited by Prof. A. Koster.
- [I4] **Politecnico di Milano, Milan**, March 2016, invited by Prof. N. Gatti.
- [I3] **Lehigh University, Bethlehem**, July 2015, invited by Prof. T. Ralphs.
- [I2] **Zuse Institute Berlin (ZIB), Berlin**, December 2014, invited by Dr. F. D’Andreagiovanni.
- [I1] **Politecnico di Milano, Milan**, a number of times since September 2012, invited by Prof. E. Amaldi and N. Gatti.
- [I0] **Carnegie-Mellon University, Pittsburgh**, January-March 2010, invited by Prof. F. Margot.

Researchers invited for scientific collaborations

- [V5] **S. Gualandi (University of Pavia)**, November 2018, invited to University of Southampton.
- [V4] **F. Furini (Dauphine University)**, August 2018, invited to University of Southampton.
- [V3] **T. Ralphs (Lehigh University)**, April 2017, invited to University of Southampton.
- [V2] **L. Taccari (Politecnico di Milano)**, March 2015, invited to RWTH Aachen University.
- [V1] **S. Gualandi (AntOptima)**, November 2013, invited to RWTH Aachen University.

Activities as conference organizer

- [CO4] **OR63**, 63rd Annual conference of the Operational Research Society, University of Southampton (Virtual), September 2021.
- [CO3] **W-GREENBELT 2018**, Workshop on GREEN and BluE Logistics and Transport, University of Southampton, 16-17 July 2018.
- [CO2] **ICCL 2017**, International Conference on Computational Logistics, University of Southampton, 18-20 October 2017.
- [CO1] **BODAF 2017**, (Bilevel) Optimization, Data Analysis and Forecasting, University of Southampton, 3-4 July 2017.

Activities as conference session organizer

- [CSO5] **IMA and OR Society Conference on Mathematics of Operational Research 2021**, (Online, UK), session title: “(Multilevel) optimization methods for energy transmission”, speakers: L. Schewe, M. Weibelzahl, P. Bartmeyer.
- [CSO4] **European Conference on Operational Research (EURO) 2019**, (Dublin, IR), session title: “Packing and Covering with Integer Programming”, speakers: P. Fath, F. Antonio Medrano, S. Coniglio, M. Sorensen.
- [CSO3] **IMA and OR Society Conference on Mathematics of Operational Research 2017**, (Birmingham, UK), session title: “Nonlinear and Bilevel Optimisation”, speakers: M. Sinnl, A. Zemkoho, S. Brierley.
- [CSO2] **International Symposium on Mathematical Programming (ISMP) 2015**, (Pittsburgh, US, Pennsylvania), session title: “Applications of Bilevel Programming to Combinatorial Optimization and Game Theory“, speakers: M. Carvalho, L. Lozano, C. Casorran-Amilburu.
- [CSO1] **Annual Conference of the Italian Operations Research Society (AIRO) 2014**, (Como, Italy), session title: “Mixed-integer linear programming”, speakers: S. Smriglio, M. Boccia, S. Coniglio.

Activities as editorial board member

2020 - **Associate Editor**, *Asia-Pacific Journal of Operational Research*.

Activities as program committee member

EvoApplications 2021, 24rd European Conference on the Applications of Evolutionary Computation, (part of Evo*2021).

EvoApplications 2020, 23rd European Conference on the Applications of Evolutionary and bio-inspired Computation, (part of Evo*2020).

IJCAI 2019, International Joint Conference on Artificial Intelligence.

ICCL 2018, International Conference on Computational Logistics.

IJCAI-ECAI 2018, International Joint Conference on Artificial Intelligence and European Conference on Artificial Intelligence.

AAAI 2018, AAAI Conference on Artificial Intelligence.

EvoCOMNET 2018, (workshop of EvoSTAR 2018).

ICCL 2017, International Conference on Computational Logistics.

EvoCOMNET 2017, (a track of EvoSTAR 2017).

AAAI 2017, AAAI Conference on Artificial Intelligence.

IJCAI 2016, International Joint Conference on Artificial Intelligence.

AAAI 2016, AAAI Conference on Artificial Intelligence.

Activities as peer reviewer

Journals **INFORMS Operations Research**, 2020.

RAIRO Operations Research, 2020.
 SIAM Journal of Optimization, 2020.
 European Journal of Operational Research, 2018.
 INFORMS Journal on Computing, 2019.
 TOP (Journal of the Spanish Society of Statistics and Operations Research), 2019.
 IEEE Transactions on Cloud Computing, 2018.
 Operations Research Letters, 2018.
 Computational and Applied Mathematics, 2018.
 IEEE Transactions on Network and Service Management, 2018.
 Discrete Optimization, 2017.
 European Journal on Computational Optimization, 2017.
 Computers and Operations Research, 2017.
 Computational and Applied Mathematics, 2016.
 European Journal of Operations Research, 2016.
 International Journal of Parallel, Emergent and Distributed Systems, 2015.
 INFORMS Journal on Computing, 2015.
 IIIE Transactions, 2015.
 Operations Research Letters, 2014.
 INFOR (Information Systems and Operational Research), 2014.
 Computer Networks, 2011.
 Journal of Experimental Algorithmics, 2010.

Conferences **STACS 2019**, *Symposium on Theoretical Aspects of Computer Science*.
IJCAI 2018, *International Joint Conference on Artificial Intelligence*.
ICCL 2018, *International Conference on Computational Logistics*.
AAAI 2018, *AAAI Conference on Artificial Intelligence*.
ICCL 2017, *International Conference on Computational Logistics*.
ICAT 2017, *International Conference on Information, Communication and automation technologies*.
EvoCOMNET 2017, “Application of Nature-inspired Techniques for Communication Networks and other Parallel and Distributed Systems” track within EvoSTAR 2017.
AAAI 2017, *AAAI Conference on Artificial Intelligence*.
IJCAI 2016, *International Joint Conference on Artificial Intelligence*.
AAAI 2016, *AAAI Conference on Artificial Intelligence*.
CP 2015, *Conference on Principles and Practice of Constraint Programming*.
ENIC 2015, *European Network Intelligence Conference*.
INOC 2015, *International Network Optimization Conference*.
OPODIS 2014, *International Conference on Principles of Distributed Systems*.
DRCN 2014, *Design of Reliable Communication Networks*.
AAAI 2014, *AAAI Conference on Artificial Intelligence*.
SEA 2013, *Symposium on Experimental Algorithms*.

Participation to conferences and workshops

Organizer **W-GREENBELT 2018**, **Workshop on GREEN and BluE Logistics and Transport**, 2018, Southampton, UK.
International Conference on Computational Logistics, 2017, Southampton, UK.
(Bilevel) Optimization, Data Analysis and Forecasting, 2017, Southampton, UK.

Speaker **International Conference on Optimization and Decision Science (ODS)**, 2020, Online.
International Symposium on Mathematical Programming (ISMP), 2018, Bordeaux, France.
International Workshop on Bilevel Programming (IWOBIP), 2018, Lille, France.
Symposium on Experimental Algorithms (SEA), 2017, London, UK.
Modeling and Optimization: Theory and Applications (MOPTA), 2015, Bethlehem, US, Pennsylvania.

International Symposium on Mathematical Programming (ISMP), 2015, Pittsburgh, US, Pennsylvania.

Symposium on Experimental Algorithms (SEA), 2015, Paris, France.

International Network Optimization Conference (INOC), 2015, Warsaw, Poland.

Conference of the French Society of Operations Research and Decision Support (ROADEF), 2015, Marseille, France.

INFORMS Annual Meeting, 2014, San Francisco, US, California.

International Symposium on Combinatorial Optimization (ISCO), 2014, Lisbon, Portugal.

INFORMS Telecommunications Conference, 2014, Lisbon, Portugal.

EURO-INFORMS Joint International Meeting, 2013, Rome, Italy.

Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), 2013, Enschede, Netherlands.

International Symposium on Mathematical Programming, ISMP, 2012, Berlin, Germany.

Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW), 2011, Rome, Italy.

Combinatorial Optimization Workshop (COW), 2011, Aussois, France.

Symposium on Experimental Algorithms (SEA), 2010, Naples, Italy.

International Symposium on Mathematical Programming, ISMP, 2009, Chicago, US, Illinois.

Annual Conference of the Italian Operations Research Society (AIRO), 2008, Naples, Italy.

Metaheuristics International Conference (MIC), 2008, Hamburg, Germany.

Poster presenter **STEM for Britain, House of Commons (Westminster)**, 2017, London, UK.

Integer Programming and Combinatorial Optimization (IPCO), 2014, Bonn, Germany.

Mixed-Integer Programming Workshop (MIP), 2011, Waterloo, Canada, Ontario.

Mixed-Integer Programming Workshop (MIP), 2010, Atlanta, US, Georgia.

Other **Mathematical Foundations of Optimisation in Data Science, Newton Institute**, 2020, Online.

Annual Analytics Summit, OR Society, 2016, London, UK.

First Aachen Discrete Mathematics Days, 2016, Aachen, Germany.

Combinatorial Optimization Workshop (COW), 2016, Aussois, France.

Mixed-Integer Nonlinear Methods for Energy Systems Engineering (MINOMESE), 2015, Aachen, Germany.

Combinatorial Optimization Workshop (COW), 2013, Aussois, France.

Integer Programming and Combinatorial Optimization (IPCO), 2009, Bertinoro, Italy.

Teaching experience (as instructor/lecturer)

- 2020–21 **Operational Research and Mathematical Computing**, *Co-instructor & module leader*, BSc students in Mathematics, University of Southampton.
Topics: Sorting Algorithms, Computational Complexity, Dijkstra's algorithm, Critical Path Method, Linear Programming, Simplex Method
Algorithms, *Instructor & module leader*, BSc students in Mathematics, University of Southampton.
Topics: Spanning Trees, Shortest Paths, Network Flows, Bipartite Matchings, Computational Complexity, \mathcal{NP} -Hardness and Approximability, Dynamic Programming
- 2019–20 **Combinatorial Optimization, NATCOR**, *Co-instructor*, PhD students, University of Southampton.
Topics: Integer programming and norm minimization for machine learning
- 2018–19 **Operational Research and Mathematical Computing**, *Co-instructor & module leader*, BSc students in Mathematics, University of Southampton.
Topics: Sorting Algorithms, Computational Complexity, Dijkstra's algorithm, Critical Path Method, Linear Programming, Simplex Method
Algorithms, *Instructor & module leader*, BSc students in Mathematics, University of Southampton.
Topics: Spanning Trees, Shortest Paths, Network Flows, Bipartite Matchings, Computational Complexity, \mathcal{NP} -Hardness and Approximability, Dynamic Programming
- 2017–18 **Operational Research and Mathematical Computing**, *Co-instructor & module leader*, BSc students in Mathematics, University of Southampton.
Topics: Sorting Algorithms, Computational Complexity, Dijkstra's algorithm, Critical Path Method, Linear Programming, Simplex Method

Algorithms, *Instructor & module leader*, BSc students in Mathematics, University of Southampton.
Topics: Sorting Algorithms, Spanning Trees, Shortest Paths, Network Flows, Bipartite Matchings, Computational Complexity, \mathcal{NP} -Hardness and Approximability

Introduction to Operational Research & module co-leader, *Co-instructor*, BSc students in Mathematics, University of Southampton.

Topics: Linear and Integer Programming, Simplex Method, Project Networks, Inventory Control

2016–17 **Algorithms**, *Instructor & module leader*, BSc students in Mathematics, University of Southampton.
Topics: Sorting Algorithms, Spanning Trees, Shortest Paths, Network Flows, Bipartite Matchings, Computational Complexity, \mathcal{NP} -Hardness and Approximability

2015–16 **Algorithms**, *Co-instructor (with Prof. C. Potts)*, BSc students in Mathematics, University of Southampton.
Topics: Network Flows, Bipartite Matchings, Computational Complexity, \mathcal{NP} -Hardness and Approximability

2015–16 **Optimization B**, *Co-instructor (with Prof. A. Koster)*, BSc/MSc students in Mathematics, RWTH Aachen University.

Topics: Shortest paths, Linear Programming with TUM and TDI formulations, Bipartite and Nonbipartite Matchings

2011–12 **Foundations of Operations Research & module leader**, *Instructor*, MSc students in Computer Science Engineering, Politecnico di Milano, Como Campus.

Topics: Shortest paths, Spanning Trees, Network flows, Linear Programming, Mixed-Integer Linear Programming

Teaching experience (as teaching assistant)

2014–15 **Integer Linear Optimization**, *Teaching assistant (course tutor, homework grading)*, MSc students in Mathematics, RWTH Aachen University.

2012–13 **Optimization B**, *Teaching assistant (course tutor, homework grading)*, BSc/master students in Mathematics, RWTH Aachen University.

2010–11 **Optimization**, *Teaching assistant (course and lab demonstrations tutor)*, MSc students in Computer Science Engineering and Mathematical Engineering, Politecnico di Milano.

Foundations of Operations Research, *Teaching assistant (course and lab demonstrations tutor)*, MSc students in Computer Science Engineering and Mathematical Engineering, Politecnico di Milano.

2009–10 **Optimization**, *Teaching assistant (course and lab demonstrations tutor)*, MSc students in Computer Science Engineering and Mathematical Engineering, Politecnico di Milano.

Operations Research, *Teaching assistant (course tutor)*, BSc students in Computer Science Engineering, Politecnico di Milano, Como campus.

2008–09 **Fundamentals of Operations Research D**, *Teaching assistant (lab demonstrations tutor)*, BSc students in Computer Science Engineering, Politecnico di Milano, Como Campus.

Fundamentals of Operations Research D-E, *Teaching assistant (course tutor)*, BSc students in Computer Science Engineering, Politecnico di Milano.

2007–08 **Fundamentals of Operations Research D**, *Teaching assistant (lab demonstrations tutor)*, BSc students in Computer Science Engineering, Politecnico di Milano, Como Campus.

Complements of Operations Research, *Teaching assistant (lab demonstrations tutor)*, MSc students in Computer Science Engineering and Mathematical Engineering, Politecnico di Milano.

Fundamentals of Operations Research D-E, *Teaching assistant (lab demonstrations tutor)*, MSc students in Computer Science Engineering, Politecnico di Milano.

Supervised students awards

2020 **CORMSIS Summer Project Prize**, *University of Southampton*, M.E. Voss, A. Inaba, X.-W. Teh.

2019 **CORMSIS Summer Project Prize**, *University of Southampton*, S.Y. Chin and Z. Xue.

2018 **CORMSIS Summer Project Prize**, *University of Southampton*, M. Orderud.

2017 **CORMSIS Summer Project Prize**, *University of Southampton*, C. Velez.

2016 **CORMSIS Summer Project Prize**, *University of Southampton*, K. Roy.

Postdoc supervision

2020– **F. Garuba**, *University of Southampton*.

2020–20 **P.M. Bartmeyer**, *University of Southampton*.

PhD student supervision

- 2016–21 **R. Walton**, *University of Southampton*.
(co-supervision (50%) with J. Fliege)

PhD student supervision (ongoing)

- 2020– **Y. Shao**, *University of Southampton*.
(co-supervision (40%) with A. Zemkoho and H. Qi)
- 2019– **M.A. Alammam**, *University of Southampton*.
(co-supervision (30%) with C. Potts and A. Martinez-Sykora)
- 2018– **A.J. Dunn**, *University of Southampton*.
(co-supervision (40%) with A. Zemkoho and H. Qi)
- 2018– **J.B. Badrodin**, *University of Southampton*.
(co-supervision (50%) with H. Qi)
- 2017– **K.-M. Steinborn-Büsse**, *University of Southampton*.
(co-supervision (50%) with J. Fliege)

MSc/BSc student supervision (dissertations)

- 2019–20 **4 MSc students**, *University of Southampton*, M. Maliali, A. Inaba, X.-W. Teh, M.E. Voss.
(unique supervisor)
- 2018–19 **1 Visiting MSc student**, *University of Southampton/University of Pavia*, L. Muffone.
(unique supervisor)
- 3 MSc students**, *University of Southampton*, S.-Y. Chin, Z. Fei, Z. Xue.
(unique supervisor)
- 2017–18 **3 MSc students**, *University of Southampton*, M. Orderud, Z. Luu, Q. Wu.
(unique supervisor)
- 2016–17 **3 MSc students**, *University of Southampton*, C. Liu, G. Oyasor, C. Velez.
(unique supervisor)
- 2015–16 **2 MSc students**, *University of Southampton*, K. Roy, C. Ma.
(unique supervisor)
- 2009–16 **3 MSc students**, *Politecnico di Milano*, A. Nicotra, C. Ileri, D. Cardana.
(co-supervision with E. Amaldi)
- 2015 **1 MSc student**, *RWTH Aachen University*, J. Rosendahl.
(co-supervision with A. Koster)
- 2009–16 **3 MSc students**, *Politecnico di Milano*, A. Marchesi, S. Corti, A. Perrucci.
(co-supervision with N. Gatti)
- 2008–12 **7 BSc students**, *Politecnico di Milano*, A. Nicotra, M. Mazzoni, G. Personeni, I. Catallo, S. Celentano, F. Cardellini, E. Cereda.
(co-supervision with E. Amaldi)

Students supervision (within taught courses)

- 2020–21 **Presenting Reports**, *University of Southampton*.
Supervisor of 10 MSc students on researching, writing, and presenting a report on aspects of Operations Research and Machine Learning
- 2020–21 **MMath Project**, *University of Southampton*.
Supervisor of a 4th year BSc student (A. Rose) working on solving the hyperplane-clustering problem
- 2020–21 **Mathematics Project**, *University of Southampton*.
Supervisor of six BSc students working on modeling and solving diet problems with mathematical programming
- 2019–20 **Presenting Reports**, *University of Southampton*.
Supervisor of six MSc students on researching, writing, and presenting a report on aspects of Operations Research and Machine Learning
- 2018–19 **Mathematical Investigation and Communication (MIC)**, *University of Southampton*.
Supervisor of six BSc students working on modeling and solving diet problems with mathematical programming
- 2017–18 **Presenting Reports**, *University of Southampton*.
Supervisor of three MSc students on researching, writing, and presenting a report on aspects of Operations Research

Communicating and Researching Mathematics (CRM), University of Southampton.
Supervisor of four BSc students working on topics of network traffic estimation

- 2016–17 **Presenting Reports**, University of Southampton.
Supervisor of three MSc students on researching, writing, and presenting a report on aspects of Operations Research
- Communicating and Researching Mathematics (CRM)**, University of Southampton.
Supervisor of three BSc students working on topics of Robust Optimization
- 2015–16 **Presenting Reports**, University of Southampton.
Supervisor of three MSc students on researching, writing, and presenting a report on aspects of Operations Research

PhD students examination

- 2020–21 **Internal examiner for PhD viva/defence**, *University of Southampton*, Y. Zhang (PhD student in Operational Research).
- 2019–20 **Internal examiner for PhD viva/defence**, *University of Southampton*, M. Benedek (PhD student in Operational Research).
- 2018–19 **Internal examiner for PhD viva/defence**, *University of Southampton*, A. Robins (PhD student in Operational Research).
- Internal examiner of PhD viva/defence**, *University of Southampton*, S. Zhou (PhD student in Operational Research).
- Independent assessor for 1st year review**, *University of Southampton*, L.-C. Dinh (PhD student in Computer Science).
- Independent assessor for 3rd year review**, *University of Southampton*, F. Ge (PhD student in Operational Research).
- 2017–18 **Internal examiner for PhD viva/defence**, *University of Southampton*, C. Lamas Fernandez (PhD student in Business Analytics).
- Independent assessor for 2nd year review (MPhil to PhD upgrade)**, *University of Southampton*, Y. Zhang (PhD student in Operational Research).
- Independent assessor for 2nd year review (MPhil to PhD upgrade)**, *University of Southampton*, S. Zachariades (PhD student in Operational Research).
- Independent assessor for 2nd year review (MPhil to PhD upgrade)**, *University of Southampton*, F. Ge (PhD student in Operational Research).
- 2016–17 **Independent assessor for 2nd year review (MPhil to PhD upgrade)**, *University of Southampton*, M. Benedek (PhD student in Operational Research).
- Independent assessor for 2nd year review (MPhil to PhD upgrade)**, *University of Southampton*, S. Zhou (PhD student in Operational Research).
- Independent assessor for 1st year PhD review**, *University of Southampton*, Y. Zhang (PhD student in Operational Research).
- Independent assessor for annual PhD review**, *University of Southampton*, H. Hall (PhD student in Operational Research).
- 2015–16 **Independent assessor 2nd year review (MPhil to PhD upgrade)**, *University of Southampton*, A. Robins (PhD student in Operational Research).
- 2011–12 **Member of MSc graduation committee**, *Politecnico di Milano*, Mathematical Engineering.

Administrative service

- 2018– **MSc Admission Officer**, *MSc programs: Operational Research, Operational Research & Finance, Operational Research & Statistics, Data and Decision Analytics*, University of Southampton.
- 2017–18 **MSc Exam Officer**, *MSc programs: Operational Research, Operational Research & Finance, Operational Research & Statistics*, University of Southampton.
- 2016–17 **Deputy Ethics Officer**, *Department of Mathematical Sciences*, University of Southampton.

Travel grants

- 2015 **Traveling support for session organization and oral presentation**, *ISMP 2015 (Pittsburgh, US, Pennsylvania)*, granted by DAAD (German Academic Exchange Service).
- 2011 **Traveling support for poster presentation**, *MIP 2011 (Waterloo, Canada, Ontario)*, granted by conference organizers via conference sponsors.

2010 **Traveling support for poster presentation**, *MIP 2010 (Atlanta, US, Georgia)*, granted by conference organizers via conference sponsors.

Honors and awards

2017 **STEM for Britain**, *Selected for “STEM for Britain” poster competition among early-career researchers at the House of Commons (Westminster), London, UK.*

2008–10 **PhD scholarship**, *(1st classified over more than 80 applicants at Dipartimento di Elettronica e Informazione, Politecnico di Milano)*, granted by MIUR (Italian Ministry for University and Research).

2002–07 **BSc and MSc student scholarships**, *reduced student tuition fees (each eligible year) for merit.*

Spoken languages

Italian (mother tongue), English (fluent), French (basic)

Technical skills

Programming C/C++, Python, Java, Matlab/Octave

Math programming AMPL, IBM ILOG CPLEX (Concert library), Gurobi, BCP, Couenne, Pyomo

OS GNU/Linux, Windows

Office suite Microsoft Office (Word, PowerPoint, Excel), Open/Libre Office

References

Prof. E. Amaldi, *Politecnico di Milano (Milan, Italy)*, edoardo.amaldi@polimi.it.

Prof. A. Koster, *RWTH Aachen University (Aachen, Germany)*, koster@math2.rwth-aachen.de.

Prof. N. Gatti, *Politecnico di Milano (Milan, Italy)*, nicola.gatti@polimi.it.

Prof. T. Ralphs, *Lehigh University (Lehigh, Bethlehem, PS, US)*, ted@lehigh.edu.