Tommaso Mannelli Mazzoli

Curriculum Vitae

Favoritenstrasse 9-11, Vienna, Austria
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tommanmaz.github.io/

Personal Data

born in Florence (Italy), 1993-09-22

Italian Citizenship

Education

Since 2021 **Ph.D. Student in Computer Science**, *TU Wien*, Vienna (Austria).
Advisor: Nysret Musliu

2019 – 2020 **Master of Science in Mathematical Engineering**, *Universidad Complutense Madrid*, Madrid (Spain), Double degree.
Advisor: Angel Felipe Ortega

2018 – 2020 **Master of Science in Applied Mathematics**, *University of study*, Florence (Italy).
Advisor: Stefania Bellavia
Thesis topic: The Quadratic Assignment Problem, Metaheuristic approaches
Area of Concentration: Combinatorial Optimisation

2013 – 2017 **Bachelor of Science in Mathematics**, *University of study*, Florence (Italy).
Advisor: Andrea Colesanti
Thesis topic: "Integration in finite terms: The Liouville's Theorem"
Area of Concentration: Differential Algebra

Research Interests

Metaheuristic methods

Hybridization of Metaheuristics with Exact Methods

Evolutionary Computation

Crew Scheduling Problems (in particular, Bus Driver Scheduling Problem)

Work Experience

Sep – Dec 2023 **Visiting Scholar**, *Universidad Autonoma Barcelona*, Bellaterra, Spain.

Mar – June 2023 **Visiting Scholar**, *University of Melbourne*, Melbourne, Australia.

Since 2021 **Project Assistant**, *Institute for Logic and Computation*, TU Wien, Vienna, Austria.
Funded by FWF project W1260-N35, Vienna Graduate School of Combinatorial Optimization

2017 – 2021 **Ambulance rescuer**, *Humanitas Firenze Nord*, Florence (Italy).

2014 – 2019 **Academic senator**, *University of study*, Florence (Italy).

2011 – 2021 **Maths and Physics's private tutor**.

Residence in Foreign Countries

Madrid, Spain	September 2019-February 2020
Melbourne, Australia	March 2023-June 2023
Barcelona, Spain	September 2023-December2023

Publication(s)

2024 **Tommaso Mannelli Mazzoli, Lucas Kletzander, Nysret Musliu, Kate Smith-Miles**, *Instance Space Analysis for the Bus Driver Scheduling*, on-going.

2024 **Tommaso Mannelli Mazzoli, Lucas Kletzander, Nysret Musliu, Pascal Van Hentenrick**, *Investigating Large Neighbourhood Search for Bus Driver Scheduling*, ICAPS 2024.

2022 **Lucas Kletzander, Tommaso Mannelli Mazzoli, Nysret Musliu**, *Metaheuristic Algorithms for the Bus Driver Scheduling Problem with Complex Break Constraints*, Genetic and Evolutionary Computation Conference (GECCO 2022). `https://doi.org/10.1145/3512290.3528876`.

Seminars

I held seminars in the following events.

May 2024 **VGSCO Retreat**, *From starts in the sky to instances in the space.*

Jan 2024 **VGSCO Colloquia**, *Optimisation and Consensus.*

Oct 2023 **UAB Seminar**, *Solving the bus driver scheduling problem.*

Apr 2023 **Optima Seminar**, *Solving the bus driver scheduling problem.*

Jan 2022 **VGSCO Colloquia**, *Metaheuristic Algorithms for Bus Driver Scheduling Problem with Complex Break Constraints.*

Jun 2022 **DBAI Meeting**, *Metaheuristic Algorithms for Bus Driver Scheduling Problem with Complex Break Constraints.*

Jun 2022 **VGSCO retreat**, *Tabu Search for Bus Driver Scheduling Problem with hard Break Constraints.*

Jul 2022 **GECCO 2022**, *Metaheuristic Algorithms for Bus Driver Scheduling Problem with Complex Break Constraints.*

Nov 2022 **Open Problems Sessions**, *Metaheuristic Algorithms for Bus Driver Scheduling Problem with Complex Break Constraints.*

Other activities

2022 SIGEVO Summer School (`https://gecco-2022.sigevo.org/Summer-School`)

Knowledge

OS	GNU Linux, Windows, Android
Languages	Python, Octave, Matlab, Fortran, LaTeX, C, Julia, R
Software	Gams, MiniZinc, SAS, SPSS

Outreach

2022 GECCO volunteer

2016 **Gara matematica (Mathematics Contest)**, *Dipartimento di Matematica Ulisse Dini, Florence.*
Collaboration in proctoring and grading in an annual contest for high school students.

Languages

Italian **Mother Language**
English **Professional working proficiency**
Spanish **Professional working proficiency**
German **Basic**

Other Activities

Hobby **Interested in Science and technology in general, chess, salsa, bachata**.
Others **Italian driving license B, AED operator**.

Last Update: 23 May 2024