

Daniele Zago

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Date of birth: 9 May 1996

WORK EXPERIENCE

Data Scientist Optit S.r.l.	Oct 2024 – Present <i>Bologna, Italy</i>
<ul style="list-style-type: none">Research and development of routing algorithms for clustered vehicle routing problemsDevelopment of forecasting models for energy demand prediction	
Teaching assistant Department of Developmental Psychology and Socialisation, University of Padua	Oct 2022 – Dec 2022 <i>Padua, Italy</i>
<ul style="list-style-type: none">Teaching activities: lectures on introduction to R programming and data analysis	

EDUCATION

University of Padua <i>Ph.D. in Statistical Sciences</i>	Padua, Italy 2021 – 2024
<ul style="list-style-type: none">Advisor: prof. Giovanna Capizzi; Co-advisor: prof. Peihua QiuResearch topic(s): online outlier detection and stochastic optimization	
University of Florida <i>Visiting research scholar</i>	Gainesville, FL, USA Jan 2023 – Dec 2023
Istituto Nazionale di Fisica Nucleare and University of Perugia <i>Thirteenth INFN International School on Efficient Scientific Computing</i>	Bertinoro, Italy Oct 2022
<ul style="list-style-type: none">Efficient C++ programmingGPU programming with CUDA	
University of Padua <i>M.Sc. in Statistical Sciences</i>	Padua, Italy 2019 – 2021
<ul style="list-style-type: none">Final grade: 110/110 cum Laude, GPA: 29.5/30Topics: Data science, statistics for industry, outlier detection, time series analysis	
University of Perugia <i>Summer school in Mathematics</i>	Perugia, Italy Jul 2020
University of Padua <i>B.Sc. in Statistics for Technology and Sciences</i>	Padua, Italy 2016 – 2019
<ul style="list-style-type: none">Final grade: 110/110 cum Laude, GPA: 29.2/30Topics: Big data analytics, computational statistics, programming, design of experiments	

CONFERENCE PRESENTATIONS

Sep 2025	Invited talk. ENBIS-25 Conference Optimal constrained design of control charts using stochastic approximations	<i>Piraeus, Greece</i>
Oct 2023	Invited talk. 2023 INFORMS Annual Meeting Optimal constrained design of control charts using stochastic approximations	<i>Phoenix, AZ, USA</i>
Sep 2022	Poster presentation. Statistical methods and models for complex data Profile monitoring based on adaptive parameter learning	<i>Padova, Italy</i>
Jun 2022	Poster presentation. 2022 ISBA World meeting Bayesian nonparametric multiscale mixture models via Hilbert-curve partitioning	<i>Montréal, Canada</i>

AWARDS

2025	ENBIS Knowledge Fund, ENBIS 2025 conference	<i>Piraeus, Greece</i>
2022	Young Travel Award, ISBA 2022 conference	<i>Montréal, Canada</i>
2018	Mille e una Lode Award 2018 (<i>top 3% of students</i>)	<i>University of Padua</i>
2017	Mille e una Lode Award 2017 (<i>top 3% of students</i>)	<i>University of Padua</i>

PUBLICATIONS

Journal Articles

Zago, D. (2025). StatisticalProcessMonitoring.jl: A general framework for statistical process monitoring in Julia. *Journal of Statistical Software*, 113, 1-45. <https://doi.org/10.18637/jss.v113.i07>

Zago, D., Tian, Z., Capizzi, G., & Qiu, P. (2025). A general framework for monitoring mixed data. *Journal of Quality Technology*, 1-15. <https://doi.org/10.1080/00224065.2025.2512164>

Zago, D., Capizzi, G., & Qiu, P. (2025). An improved bisection-type algorithm for control chart calibration. *Statistics and Computing*, 35(4), 81. <https://doi.org/10.1007/s11222-025-10609-7>

Zago, D., Capizzi, G., & Qiu, P. (2024). Optimal constrained design of control charts using stochastic approximations. *Journal of Quality Technology*, 56(3), 257-275. <https://doi.org/10.1080/00224065.2024.2323585>

Zago, D., & Capizzi, G. (2024). Alternative parameter learning schemes for monitoring process stability. *Quality Engineering*, 36(3), 560-574. <https://doi.org/10.1080/08982112.2023.2253891>

SKILLS

PROGRAMMING	Python, Julia, R, SQL, C++, C, SAS, bash
OTHER	git, GitHub, Google Cloud, Microsoft Office, Jekyll
COMPETENCIES	Outlier detection, stochastic optimization, machine learning
SOFT SKILLS	Public speaking, teamwork, project management
LANGUAGES	Italian (native), English (fluent, C2), German (moderate), Spanish (moderate)