

Daniele Zago

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Date of birth: 9 May 1996

WORK EXPERIENCE

Data Scientist <i>Optit S.r.l.</i>	Oct 2024 – Present <i>Bologna, Italy</i>
<ul style="list-style-type: none">Research and development of routing algorithms for periodic clustered vehicle routing problemsDevelopment of anomaly detection and forecasting models for energy demand	
Teaching assistant <i>Department of Developmental Psychology and Socialisation, University of Padua</i>	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 optimizationThesis: “Advanced Statistical Process Monitoring using Simulation-Based Algorithms”	
University of Florida <i>Visiting research scholar, supervisor: Prof. Peihua Qiu</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: 29.5/30Thesis: “Bayesian multiscale mixture models via Hilbert curve partitioning”	
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: 29.2/30	

CONFERENCE PRESENTATIONS

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

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
STRUMENTI	git, Google Cloud, Microsoft Office
LANGUAGES	Italian (native), English (fluent, C2), German (moderate), Spanish (moderate)

REFERENCES

Giovanna Capizzi <i>Full Professor and Head of Department</i> Department of Statistical Sciences University of Padua giovanna.capizzi@unipd.it	Peihua Qiu <i>Dean's Professor of Biostatistics</i> Department of Biostatistics University of Florida pqiu@ufl.edu
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