

# Daniele Zago

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Date of birth: 9 May 1996

## WORK EXPERIENCE

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

## EDUCATION

<b>University of Padua</b> <i>Ph.D. in Statistical Sciences</i> <ul style="list-style-type: none"><li>Advisor: prof. Giovanna Capizzi; Co-advisor: prof. Peihua Qiu</li><li>Research topic(s): <b>online outlier detection</b> and <b>stochastic optimization</b></li><li>Thesis: “Advanced Statistical Process Monitoring using Simulation-Based Algorithms”</li></ul>	Padua, Italy 2021 – 2024
<b>University of Florida</b> <i>Visiting research scholar, supervisor: Prof. Peihua Qiu</i>	Gainesville, FL, USA Jan 2023 – Dec 2023
<b>Istituto Nazionale di Fisica Nucleare and University of Perugia</b> <i>Thirteenth INFN International School on Efficient Scientific Computing</i> <ul style="list-style-type: none"><li>Efficient C++ programming</li><li>GPU programming with CUDA</li></ul>	Bertinoro, Italy Oct 2022
<b>University of Padua</b> <i>M.Sc. in Statistical Sciences</i> <ul style="list-style-type: none"><li>Final grade: <b>110/110 cum Laude</b>, GPA: <b>29.5/30</b></li><li>Thesis: “Bayesian multiscale mixture models via Hilbert curve partitioning”</li></ul>	Padua, Italy 2019 – 2021
<b>University of Perugia</b> <i>Summer school in Mathematics</i>	Perugia, Italy Jul 2020
<b>University of Padua</b> <i>B.Sc. in Statistics for Technology and Sciences</i> <ul style="list-style-type: none"><li>Final grade: <b>110/110 cum Laude</b>, GPA: <b>29.2/30</b></li></ul>	Padua, Italy 2016 – 2019

## CONFERENCE PRESENTATIONS

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

## AWARDS

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

## PUBLICATIONS

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### Journal articles

- Zago, D. (2025). StatisticalProcessMonitoring.Jl: A General Framework for Statistical Process Monitoring in Julia. *Journal of Statistical Software* 113, 1–45. doi: [10.18637/jss.v113.i07](https://doi.org/10.18637/jss.v113.i07)
- Zago, D., and Capizzi, G. (2024). Alternative Parameter Learning Schemes for Monitoring Process Stability. *Quality Engineering* 36, 560–574. doi: [10.1080/08982112.2023.2253891](https://doi.org/10.1080/08982112.2023.2253891)
- Zago, D., Capizzi, G., and Qiu, P. (2024). Optimal Constrained Design of Control Charts Using Stochastic Approximations. *Journal of Quality Technology* 56, 257–275. doi: [10.1080/00224065.2024.2323585](https://doi.org/10.1080/00224065.2024.2323585)
- Zago, D., Capizzi, G., and Qiu, P. (2025). An Improved Bisection-Type Algorithm for Control Chart Calibration. *Statistics and Computing* 35, 81. doi: [10.1007/s11222-025-10609-7](https://doi.org/10.1007/s11222-025-10609-7)
- Zago, D., Tian, Z., Capizzi, G., and Qiu, P. (2025). A General Framework for Monitoring Mixed Data. *Journal of Quality Technology*, 1–15. doi: [10.1080/00224065.2025.2512164](https://doi.org/10.1080/00224065.2025.2512164)

## SKILLS

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PROGRAMMING	Python, Julia, R, SQL, C++, C, SAS, bash
TOOLS	git, Google Cloud, Microsoft Office
LANGUAGES	Italian (native), English (fluent, C2), German (moderate), Spanish (moderate)

## REFERENCES

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### Giovanna Capizzi

*Full Professor and Head of Department*  
Department of Statistical Sciences  
University of Padua  
[giovanna.capizzi@unipd.it](mailto:giovanna.capizzi@unipd.it)

### Peihua Qiu

*Dean's Professor of Biostatistics*  
Department of Biostatistics  
University of Florida  
[pqiu@ufl.edu](mailto:pqiu@ufl.edu)