

# Daniele Zago

## CURRICULUM VITAE

### Personal Details

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Date of Birth: May 9, 1996  
Place of Birth: Padova, Italy  
Nationality: Italian

### Contact Information

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University of Padova, Department of Statistics, via Cesare Battisti 241-243, 35121 Padova, Italy.  
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personal page: dedzago.github.io

### Current Position

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*Since October 2021; (expected completion: December 2024)*  
**PhD Student in Statistical Sciences, University of Padova.**

### Research interests

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- Statistical process control
- Numerical analysis
- Functional data analysis
- Computational statistics

### Education

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*October 2019 – September 2021*

**Master (laurea specialistica/magistrale) degree in Statistical Sciences.**

University of Padova, Faculty of Statistical Sciences

Title of dissertation: “Bayesian multiscale mixture models via Hilbert curve partitioning”

Supervisor: Prof. Antonio Canale

Final mark: 110/110 cum Laude

*October 2016 – September 2019*

**Bachelor degree (laurea triennale) in Statistics for Technology and Sciences.**

University of Padova, Faculty of Statistical Sciences Title of dissertation: “The addition of objective data to opinion: a comparison of Bayesian models”

Supervisor: Prof. Bruno Scarpa

Final mark: 110/110 cum Laude

## Further education

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*October 3-8, 2022*

Thirteenth INFN International School on Efficient Scientific Computing – Bertinoro.  
Organizer: Bologna University and INFN

## Work experience

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*September 2019 – September 2021*

**Department of Statistical Sciences, University of Padua.**

Motivational Tutor.

- Attendance to seminars focused on the development of soft skills.
- Organization of workshops on optimal study habits and practices for first-year students.
- Attendance to outreach events and conferences.

*September 2018 – February 2020*

**Department of Statistical Sciences, University of Padua.**

Academic Tutor.

- Weekly workshops on Calculus (*Analisi Matematica*) to first-year students.

## Awards and Scholarships

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*March 2022*

Young Travel Award, ISBA 2022.

*December 2018*

Mille e una Lode Award 2018/19, scholarship awarded to the top 3% students at the University of Padova.

*December 2017*

Mille e una Lode Award 2017/18, scholarship awarded to the top 3% students at the University of Padova.

## Computer skills

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- Julia, R, Python, C, C++, bash, SQL
- git, L<sup>A</sup>T<sub>E</sub>X, Jekyll, Office suite

## Language skills

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Italian: native – English: fluent (IELTS band 8.5) – German: moderate – Spanish: moderate.

## Publications

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### Articles in journals

Zago, D., Capizzi, G. (2023). Alternative parameter learning schemes for monitoring process stability. *Quality Engineering*. <https://doi.org/10.1080/08982112.2023.2253891>

Zago, D., Canale, A., & Stefanucci, M. (2022). Bayesian multiscale mixtures of multivariate gaussian kernels for density estimation. *Proceedings of the 36th International Workshop on Statistical Modelling*. ISBN: 9788855113090

### Working papers

Zago D., Capizzi G., Qiu P. (202+). An improved bisection-type algorithm for control chart calibration.

Zago D., Capizzi G., Qiu P. (202+). Robust monitoring of multivariate mixed-type processes with serial correlation.

Zago D., Capizzi G., Qiu P. (202+). A novel CUSUM control chart for monitoring mixed-type data.

Zago D., Capizzi G., Qiu P. (202+). Optimal constrained design of control charts using stochastic approximations. *Submitted*.

### Conference presentations

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Zago, D., Capizzi, G. (2022). Profile monitoring based on adaptive parameter learning. (poster) *Statistical methods and models for complex data*, Padova, Italy, September 21–23, 2022.

Zago, D., Canale, A., Stefanucci, M. (2022). Bayesian multiscale mixtures of multivariate Gaussian kernels for density estimation. (poster) *International Workshop on Statistical Modelling 2022.*, Trieste, Italy, July 18–22, 2022.

Zago, D., Canale, A., Stefanucci, M. (2022). Bayesian nonparametric multiscale mixture models via Hilbert-curve partitioning. (poster) *2022 ISBA World meeting.*, Montréal, Canada, June 27th - July 1st, 2022.

### Teaching experience

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*October 2022 – December 2022*

Testing Psicologico

Developmental, Personality and Interpersonal Relationships Psychology

Teaching task: laboratory, 20 hours

University of Padova

Instructor: Prof. Antonio Calcagni

*September 2019 – February 2020*

Istituzioni di Analisi matematica

Statistics for Technology and Sciences

Teaching task: exercises (tutor), 32 hours

University of Padova

Instructor: Prof. Paola Mannucci, Prof. Annalisa Cesaroni

*September 2018 – February 2019*

Istituzioni di Analisi matematica

Statistics for Technology and Sciences

Teaching task: exercises (tutor), 32 hours

University of Padova

Instructor: Prof. Paola Mannucci, Prof. Annalisa Cesaroni

## References

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**Prof. Giovanna Capizzi**

Università degli Studi di Padova, Padova, Italy

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**Prof. Peihua Qiu**

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