

DANIELE ZAGO
CURRICULUM VITAE

PERSONAL DETAILS

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

CONTACT INFORMATION

University of Padova, Department of Statistics, via Cesare Battisti 241-243, 35121 Padova, Italy.
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CURRENT POSITION

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

RESEARCH INTERESTS

Statistical process control, Numerical analysis, Functional data analysis, Computational statistics.

EDUCATION

October 2019 – September 2021

Master degree (laurea specialistica/magistrale) 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

October 3-8, 2022

Thirteenth INFN International School on Efficient Scientific Computing – Bertinoro.

Organizer: Bologna University and INFN

WORK EXPERIENCE

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

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

- Julia, R, Python, C, C++, bash, SQL
- git, L^AT_EX, Jekyll, Office suite

LANGUAGE SKILLS

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

PUBLICATIONS

Articles in journals

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

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., Colosimo, B. M. (202+). Statistical process monitoring of isolated and persistent defects in complex geometrical shapes. *Manuscript in preparation*.

Zago D. (202+). StatisticalProcessMonitoring.jl: a General Framework for Statistical Process Monitoring in Julia. *Submitted*.

Zago D., Capizzi G., Qiu P. (202+). A general framework for monitoring mixed data. *Submitted*.

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

Zago D., Capizzi G., Qiu P. (202+). Effective monitoring of processes with mixed data by a self-starting CUSUM chart. *Submitted*.

SOFTWARE

Zago D., [StatisticalProcessMonitoring.jl](#), *Julia package version 0.1.3*.

CONFERENCE PRESENTATIONS

Zago, D., Capizzi, G., Qiu, P. (2023). Optimal constrained design of control charts using stochastic approximations. (invited talk) *2023 INFORMS Annual Meeting*, Phoenix, USA, October 15–18, 2023.

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 27–July 1, 2022.

TEACHING EXPERIENCE

October 2022 – December 2022

University of Padova, Department of Department of Developmental Psychology and Socialisation

Course: Testing Psicologico

Teaching task: laboratory, 20 hours

Instructor: Prof. Antonio Calcagni

September 2019 – February 2020

University of Padova, Department of Statistical Sciences

Course: Istituzioni di Analisi matematica

Teaching task: exercises (tutor), 32 hours

Instructor: Prof. Paola Mannucci, Prof. Annalisa Cesaroni

September 2018 – February 2019

University of Padova, Department of Statistical Sciences

Course: Istituzioni di Analisi matematica

Teaching task: exercises (tutor), 32 hours

Instructor: Prof. Paola Mannucci, Prof. Annalisa Cesaroni

REFERENCES

Prof. Giovanna Capizzi

Università degli Studi di Padova, Padova, Italy

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Prof. Peihua Qiu

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