

CLAUDIA COLLARIN

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| CONTACT INFORMATION | Department of Environmental Sciences, Informatics and Statistics Ca' Foscari University of Venice Via Torino 155, Mestre-Venezia, 30172, Italy | ✉ claudia.collarin@unive.it 🐙 ccollarin 🌐 ccollarin.github.io |
| RESEARCH INTERESTS | Generalized Additive Models, Distributional Regression, Survival Analysis, Gradient Boosting, Energy Forecasting | |
| CURRENT POSITION | Postdoctoral Researcher Ca' Foscari University of Venice, Department of Environmental Sciences, Informatics and Statistics (from 01/2025 to present) Advisor: Ilaria Prosdocimi | |
| EDUCATION | University of Padova Ph.D. in Statistics , Department of Statistical Sciences (from 01/2022 to 12/2024, thesis defence 04/2025) <ul style="list-style-type: none">• Thesis topic: <i>Advances in Flexible Statistical Modeling: Feature Engineering, Model Selection and Survival Analysis</i> (available at research.unipd.it)• Advisors: Bruno Scarpa (University of Padova) and Matteo Fasiolo (University of Bristol) University of Trento M.Sc. in Mathematics , Department of Mathematics (from 10/2019 to 10/2021) <ul style="list-style-type: none">• Thesis topic: <i>Automatic Effect Selection for Generalized Additive Models</i> (available at webapps.unitn.it)• Advisors: Claudio Agostinelli (University of Trento) and Matteo Fasiolo (University of Bristol)• Final mark: 110/110 with honours B.Sc. in Mathematics , Department of Mathematics (from 10/2016 to 10/2019) <ul style="list-style-type: none">• Thesis topic: <i>Registrazione di dati funzionali: un metodo fondato sull'analisi delle componenti principali (Functional Data Registration via Principal Component Analysis)</i>• Advisors: Claudio Agostinelli (University of Trento)• Final mark: 110/110 | |
| WORK EXPERIENCE | <ul style="list-style-type: none">• Advanced data analytics intern at Sorgenia spa, Milano (from 01/2023 to 12/2023, implementation of statistical software in python)• Data scientist intern at Bruno Kessler Foundation (FBK) DSIP (from 02/2021 to 06/2021, implementation of statistical software in python) | |
| VISITING PERIODS | University of Bristol, School of Mathematics, Bristol, UK (from 10/2022 to 12/2022 and from 05/2023 to 08/2023) Supervisor: Matteo Fasiolo | |

AWARDS

Travel & academics awards

- Best Early-Career Presentation Award. 39th IWSM, Limerick, IRL (2025)

Data competitions

- Top five scoring teams in the EVA Data Challenge, 14th EVA, Chapel Hill, NC (06/2025)
- First prize winner at HackTheGene, Padova (09/2022)

PUBLICATIONS

Under revision or in preparation

- Collarin, C.**, & Fasiolo, M. (2025+). *Creating semi-parametric AFT models via monotonic P-splines* [Working paper].
- Collarin, C.**, Prosdocimi, I., Girardi, P., & Masiol, M. (2025+). *Semi-parametric analysis of air pollutant trends in the north-eastern Italian Alps* [Working paper].
- Collarin, C.**, Prosdocimi, I., Girardi, P., & Wood, S. N. (2025+). *Censored Box-Cox Gaussian models* [Working paper].
- Girardi, P., **Collarin, C.**, Prosdocimi, I., & Masiol, M. (2025+). *A functional land use regression model for NO₂ concentration in the Italian Alpine region* [Under review].
- Collarin, Claudia**, Fasiolo, M., Goude, Y., & Wood, S. (2025). Integrating complex covariate transformations in generalized additive models [Working paper]. <https://doi.org/10.48550/arXiv.2511.19234>

Discussions and conference proceedings

- Collarin, C.**, & Fasiolo, M. (2025). Gamfactory: An R package for integrating covariate transformations in GAMLSS. In D. O’Sullivan, J. Sweeney, S. Moghadam, & K. Burke (Eds.), *Proceedings of the 39th international workshop on statistical modelling* (pp. 307–311).
- Collarin, C.**, & Fasiolo, M. (2024). Integrating single index effects in generalized additive models. In *Developments in statistical modelling. iwsM 2024* (pp. 116–120). Springer, Cham. https://doi.org/10.1007/978-3-031-65723-8_18
- Collarin, C.**, & Fasiolo, M. (2023). Automatic effect selection for generalized additive models. *Proceedings of the 37th International Workshop on Statistical Modelling*, 400–404.

SERVICE TO PROFESSION

Membership to scientific societies:

- Statistical Modelling Society (SMS)
- Società Italiana di Statistica (SIS)

Organizer of *Explain like I’m an Undergrad* (from 01/2023 to 01/2024), series of weekly seminars for Ph.D. students, post-docs, and young researchers in the statistics department at University of Padova.

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| PRESENTATIONS | Invited presentations |
| | [Nov 2025] TRR 391 - TC02 Workshop: Spatio-temporal Statistics in High Dimensions, Dortmund, DE |
| | [Sept 2025] GRASPA 2025 conference, Rome, IT |
| | [Apr 2025] PhD ² ays 2025, Department of Mathematics, University of Milan, IT |
| | Contributed presentations |
| | [Jul 2025] 39th International Workshop on Statistical Modelling, Limerick, IRL |
| | [Jul 2024] 38th International Workshop on Statistical Modelling, Durham, UK |
| | Poster presentations |
| | [May 2025] Early-Career Workshop on Nonparametric Statistics, LUISS University, Rome, IT |
| | [Jul 2023] 37th International Workshop on Statistical Modelling, Dortmund, DE |
| | [Sept 2022] Statistical methods and models for complex data, Padova, IT |
| INVITED SEMINARS | <i>Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, (29/01/2025)</i> |
| TEACHING | University of Padova <ul style="list-style-type: none"> • Teaching assistant: Statistics 2 (B.Sc. course in Statistics) A.Y. 2025/2026; University of Padova • Guest lecturer: “Introduction to Latex” (M.Sc.) - Feb. and Sept. 2024 • Teaching assistant: Mathematics and Statistics (B.Sc. in Biotechnologies) - A.Y. 2019/20; Univeristy of Trento |
| OTHER | Programming Languages R (advanced), Latex (advanced), Python (intermediate), Matlab (basic), C++(basic), Java (basic). Languages Italian (native), English (fluent). Author and/or maintainer of R packages gamFactory (co-Author, GitHub) |