

CLAUDIA COLLARIN

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].
- Collarin, C.**, Fasiolo, M., Wood, S. N., & Goude, Y. (2025+). *Integrating complex covariate transformations in generalized additive 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].

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. iwsn 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.

PRESENTATIONS	Invited presentations
	[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)