

## Federica Stolf

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CONTACT INFORMATION	Department of Statistical Science Duke University 214 Old Chemistry, Durham, NC 27708	✉: <a href="mailto:federica.stolf@duke.edu">federica.stolf@duke.edu</a> web: <a href="https://federicastolf.netlify.app">https://federicastolf.netlify.app</a>
RESEARCH INTERESTS	Applied Bayesian Modeling, Factor models, Bayesian Nonparametrics, Latent Feature Models, Statistical Ecology.	
CURRENT POSITION	<b>Postdoctoral Associate</b> Duke University, Department of Statistical Science (from 10/2024 to present) Advisors: Amy Herring and David Dunson	
EDUCATION	<b>Università degli Studi di Padova</b> , Padova, Italy  <b>Ph.D. in Statistics</b> , Department of Statistical Sciences (from 10/2021 to 09/2024, thesis defense 01/2025) <ul style="list-style-type: none"><li>• Thesis Topic: <i>Bayesian methods for complex dependence structures with application in ecology</i></li><li>• Advisors: Antonio Canale and David Dunson</li></ul> <b>M.Sc. in Statistical Sciences</b> , Department of Statistical Sciences (from 10/2019 to 09/2021) <ul style="list-style-type: none"><li>• Thesis Topic: <i>Bayesian hierarchical models for spatial extreme values</i></li><li>• Advisor: Antonio Canale</li><li>• Final mark: 110/110 with honors</li></ul> <b>B.Sc. in Statistics for Technology and Sciences</b> , Department of Statistical Sciences (from 10/2016 to 07/2019) <ul style="list-style-type: none"><li>• Thesis Topic: <i>Quantile regression for solar power forecasting</i></li><li>• Advisor: Antonio Canale</li><li>• Final mark: 110/110 with honors</li></ul>	
WORK EXPERIENCE	<ul style="list-style-type: none"><li>• <b>Research support activities</b> (from 03/2021 to 05/2021) Department of Statistical Sciences, Università degli Studi di Padova Supervisor: Prof. Bruno Scarpa</li><li>• <b>Data scientist intern</b> at Horsa, Vicenza (from 09/2019 to 12/2019)</li><li>• <b>Ski instructor</b> at Intersport Bernik, Kranjska Gora, Slovenia (from 12/2016 to 2/2020)</li></ul>	
VISITING PERIODS	Duke University, Department of Statistical Science, NC, USA (from 03/2023 to 09/2024) Supervisor: David Dunson.	
AWARDS	<b>Travel &amp; academics awards</b> <ul style="list-style-type: none"><li>• ASA-SBSS Student Paper Competition (2025)</li><li>• Best poster award at ISBA 2024</li><li>• Young researcher travel award, ISBA 2024</li><li>• Young researcher financial support, 4th Italian Meeting on Probability and Mathematical Statistics (2024)</li><li>• Best poster award at Autumn school in Bayesian Statistics 2023, CIRM (France)</li><li>• Young researcher travel award, ISBA 2022</li><li>• Mille e una Lode Award 2018/2019, scholarship awarded to the best 2% students of the University of Padova</li></ul> <b>Data competitions</b> <ul style="list-style-type: none"><li>• First prize winner at HackTheGene, Padova (09/2022)</li></ul>	

PUBLICATIONS	<b>Submitted and working papers</b>
	<ul style="list-style-type: none"> <li>• Stolf, F. and Canale, A. (2024+). Bayesian Adaptive Tucker Decompositions for Tensor Factorization. Submitted, <i>arXiv:2411.10218</i></li> <li>• Stolf, F. and Dunson, D. (2024+). Infinite joint species distribution models. Submitted, <i>arXiv:2402.13384</i></li> </ul>
	<b>Articles in peer-reviewed journals and conference proceedings</b>
	<ul style="list-style-type: none"> <li>• Canale, A., Schiavon, L. and Stolf, F. (2024). Invited discussion to “Sparse Bayesian factor analysis when the number of factors is unknown”. <i>Bayesian Analysis</i>, in press</li> <li>• Stolf, F. and Canale, A. (2023). A hierarchical Bayesian non-asymptotic extreme value model for spatial data. <i>Environmetrics</i>, 34(7), e2806</li> <li>• Stolf, F. and Canale, A. (2022). Bayesian spatial modeling of extreme precipitation, in <i>Proceedings of the 36th International Workshop on Statistical Modelling</i>. ISBN: 9788855113090</li> </ul>
SERVICE TO PROFESSION	<b>Referee</b> for Computational Statistics & Data Analysis  <b>Membership to scientific societies:</b> <ul style="list-style-type: none"> <li>• International Society for Bayesian Analysis (ISBA), BNP ISBA and jISBA</li> <li>• Società Italiana di Statistica (SIS)</li> </ul> <b>Organizer</b> of <i>Explain like I'm an Undergrad</i> (from 09/2023 to 07/2024) Series of weekly seminars for PhD students, post-docs, and young researchers in the statistics department at the University of Padova
PRESENTATIONS	<b>Invited presentations</b>
	[Dec 2024] CMStats Computational and Methodological Statistics, London, UK [Jun 2024] 4th Italian Meeting on Probability and Mathematical Statistics, Rome, Italy  <b>Contributed presentations</b> [Jun 2024] 52th Scientific meeting of the Italian Statistical Society, Bari, Italy [Nov 2023] BAYSM 2023, online  <b>Poster presentations</b> [Jul 2024] ISBA world meeting 2024, Venice, Italy [Jun 2024] BAYSM 2024, Venice, Italy [Oct 2023] Autumn school in Bayesian Statistics 2023, CIRM, Marseille, France [Jul 2022] 36th International Workshop on Statistical Modelling (IWSM), Trieste, Italy [Jun 2022] ISBA world meeting 2022, Montreal, Canada
TEACHING	<b>Università degli Studi di Padova</b> , Padova, Italy <ul style="list-style-type: none"> <li>• Teaching assistant for Advanced statistical inference (M.Sc.) - A.Y. 2020/21</li> <li>• Teaching assistant for Introduction to real analysis (B.Sc.) - A.Y. 2019/20, 2020/21</li> </ul>
WORKSHOPS	Selected participant at <b>Data Research Camp</b> , Florence (Italy), 07/2024 Four-day meeting where groups of young scholars, advised by a senior researcher, were asked to develop innovative methods and models to analyze a common dataset.