

Davide Agnoletto

CONTACT INFORMATION	Department of Statistical Science Duke University 214 Old Chemistry, Durham, NC 27708	✉: davide.agnoletto@duke.edu web: https://daveidagno.github.io
RESEARCH INTERESTS	Bayesian methodology, Bayesian predictive inference, generalized Bayes.	
CURRENT POSITION	Postdoctoral Associate Duke University , Department of Statistical Science (from 10/2024 to present) Advisor: David Dunson	
EDUCATION	Università degli Studi di Padova , Padova, Italy Ph.D. in Statistics , Department of Statistical Sciences (from 10/2021 to 09/2024, thesis defense 01/2025) <ul style="list-style-type: none">• Thesis title: <i>Statistical modeling within the generalized Bayesian paradigm</i>• Advisors: Bruno Scarpa, Tommaso Rigon, and David Dunson M.Sc. in Statistical Sciences , Department of Statistical Sciences (from 10/2019 to 09/2021) <ul style="list-style-type: none">• Thesis title: <i>Analysis of mortality curves: non-parametric density estimation using a Bayesian approach</i>• Advisors: Bruno Scarpa and Tommaso Rigon• Final mark: 110/110 with honors B.Sc. in Statistics for Technology and Sciences , Department of Statistical Sciences (from 10/2016 to 09/2019) <ul style="list-style-type: none">• Thesis title: <i>The use of All-Resolution Inference for fMRI images without smoothing</i>• Advisor: Livio Finos• Final mark: 110/110 with honors	
VISITING PERIODS	Duke University , Department of Statistical Science , NC, USA (from 12/2022 to 09/2024) Supervisor: David Dunson .	
AWARDS	Travel & academics awards <ul style="list-style-type: none">• Travel award. BNP14 conference, Los Angeles, US (2025)• Best poster award at ISBA 2024• ISBA travel award. ISBA 2024 world meeting, Venice, Italy• Mille e una Lode Award 2018/2019, scholarship awarded to the best 3% students of the University of Padova Data competitions <ul style="list-style-type: none">• First prize winner at HackTheGene, Padova (09/2022)	
SERVICE TO PROFESSION	Referee for <ul style="list-style-type: none">• Statistics and Probability Letters. Membership to scientific societies <ul style="list-style-type: none">• International Society for Bayesian Analysis (ISBA), BNP ISBA and jISBA• Società Italiana di Statistica (SIS)	
SERVICE TO UNIVERSITY	Positions in Boards and Committees <ul style="list-style-type: none">• Board member of the Department of Statistical Sciences, University of Padova (from 09/2022 to 09/2024) Representation of PhD students and research fellows	

PUBLICATIONS

Submitted and working papers

- Agnoletto, D., Rigon, T., and Dunson D.B. (2025). Nonparametric predictive inference for discrete data via Metropolis-adjusted Dirichlet sequences. *ArXiv*, arXiv:2507.08629.

Articles in peer-reviewed journals

- Agnoletto, D., Rigon, T., and Dunson D.B. (2025). Bayesian inference for generalized linear models via quasi-posteriors. *Biometrika*, 112(2), asaf022.

Conference proceedings

- Agnoletto, D., Rigon, T., and Dunson, D. B. (2024). Bayesian inference for generalized linear models via quasi-posteriors: an application to Eurasian chaffinch abundance in Finland. *Book of Short Papers of the Italian Statistical Society* (Pollice, A., Mariani, P.) 2024, ISBN:9783031643453.
- Agnoletto, D., Rigon, T. and Scarpa, B. (2023). Bayesian density estimation for modeling age-at-death distribution. *In Book of Short Papers of the Italian Statistical Society* (Chelli, F. M., Ciommi, M., Ingrassia, S., Mariani, F., Recchioni, M.C.) 2023. ISBN: 9788891935618.

PRESENTATIONS

Contributed presentations

- (2025) *14th International Conference on Bayesian Nonparametrics*, Los Angeles, USA.
- (2024) *BAYSM 2024: Bayesian Young Statisticians Meeting*, Venice, IT.
- (2024) *SIS 2024*, Bari, IT.
- (2023) *BAYSM 2023: Bayesian Young Statisticians Meeting*, online.
- (2023) *Bayes at CIRM: Autumn school in Bayesian Statistics*, Marseilles, FR.
- (2023) *SEAS-IN 2023: Statistical Learning, Sustainability and Impact Evaluation*, Ancona, IT.

Poster presentations

- (2024) *ISBA World Meeting*, Venice, IT.
- (2022) *Statistical methods and models for complex data: 800 years of research to understand a complex world*, Padova, IT.

SUMMER SCHOOLS
AND WORKSHOPS**Summer schools and workshops**

- (2024) *Data Research Camp*, Florence, IT. Selected participant.
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.
- (2023) *Bayes at CIRM: Autumn school in Bayesian Statistics*, Marseilles, FR.
- (2022) *SELECT - Climbing mortality model*, Misurina, IT.