

# Davide Agnoletto

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Duke University, Department of Statistical Science  
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**Current position** **Postdoctoral Associate** (October 2024 - ongoing)  
Department of Statistical Science, Duke University  
Mentors: David Dunson, Amy Herring

**Research interests** Bayesian methodology, predictive Bayesian inference, generalized Bayes.

**Education** **PhD in Statistics**  
(10/2021 – 01/2025)  
Department of Statistical Sciences, University of Padova  
Thesis title: “Statistical modeling within the generalized Bayesian paradigm”.  
Supervisors: Bruno Scarpa, Tommaso Rigon, David Dunson

**Master’s Degree in Statistical Sciences**  
(10/2019 – 09/2021)  
Department of Statistical Sciences, University of Padova  
Thesis title: “Analysis of mortality curves: non-parametric density estimation using a Bayesian approach”  
Supervisors: Bruno Scarpa, Tommaso Rigon  
Final mark: 110/110 *cum laude*

**Bachelor’s Degree in Statistics for Economics and Business**  
(10/2016 – 09/2019)  
Department of Statistical Sciences, University of Padova  
Thesis title: “The use of *All-Resolution Inference* for fMRI images without smoothing”  
Supervisor: Livio Finos  
Final mark: 110/110 *cum laude*

## Awards

### Academic

- *Best Poster award*. ISBA 2024 World Meeting, Venice, IT.
- “*Mille e una Lode*” *Award 2018/2019* (scholarship awarded to the best 1000 students of the University of Padova).

### Data competition

- HackTheGene Hackathon for young Data Scientists, University of Padua, September 2022. 1<sup>st</sup> place team.
- “Laboratorio di Statistica per le Aziende” 2021, in collaboration with Deloitte. 1<sup>st</sup> place team.

### Travel awards

- *Best poster award*. ISBA 2024 World Meeting, Venice, IT.
- *ISBA travel award (\$800)*. ISBA 2024 World Meeting, Venice, IT.
- *BNP travel award (\$300)*. 14th International Conference on Bayesian Nonparametrics (2025), Los Angeles, USA.

<b>Service to profession</b>	<b>Referee service</b> <ul style="list-style-type: none"> <li>Statistics &amp; Probability Letters.</li> </ul>
<b>Service to University</b>	<b>Positions in Boards and Committees</b> <ul style="list-style-type: none"> <li><i>Board member of the Department of Statistical Sciences, University of Padova, Italy.</i> Representation of PhD students and research fellows. 10/2022 – 09/2025.</li> </ul>
<b>Pubblications</b>	<b>Submitted and working papers</b> <ul style="list-style-type: none"> <li>Agnoletto, D., Rigon, T., and Dunson D.B. (2025). Nonparametric predictive inference for discrete data via Metropolis-adjusted Dirichlet sequences. <i>ArXiv</i>, arXiv:2507.08629.</li> <li>Agnoletto, D., Rigon, T., and Dunson D.B. (2025). Bayesian inference for generalized linear models via quasi-posteriors. <i>Biometrika</i>, 112(2), asaf022.</li> </ul> <b>National conference proceedings</b> <ul style="list-style-type: none"> <li>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. <i>Book of Short Papers of the Italian Statistical Society</i> (Pollice, A., Mariani, P.) 2024, ISBN:9783031643453.</li> <li>Agnoletto, D., Rigon, T. and Scarpa, B. (2023). Bayesian density estimation for modeling age-at-death distribution. <i>In Book of Short Papers of the Italian Statistical Society</i> (Chelli, F. M., Ciommi, M., Ingrassia, S., Mariani, F., Recchioni, M.C.) 2023. ISBN: 9788891935618.</li> </ul>
<b>Presentations</b>	<b>Contributed presentations</b> <p>(2025) <i>14th International Conference on Bayesian Nonparametrics</i>, Los Angeles, USA.</p> <p>(2024) <i>BAYSM 2024: Bayesian Young Statisticians Meeting</i>, Venice, IT.</p> <p>(2024) <i>SIS 2024</i>, Bari, IT.</p> <p>(2023) <i>BAYSM 2023: Bayesian Young Statisticians Meeting</i>, online.</p> <p>(2023) <i>Bayes at CIRM: Autumn school in Bayesian Statistics</i>, Marseilles, FR.</p> <p>(2023) <i>SEAS-IN 2023: Statistical Learning, Sustainability and Impact Evaluation</i>, Ancona, IT.</p> <b>Poster presentations</b> <p>(2024) <i>ISBA World Meeting</i>, Venice, IT.</p> <p>(2022) <i>Statistical methods and models for complex data: 800 years of research to understand a complex world</i>, Padova, IT.</p>
<b>Summer schools and workshop</b>	<b>Summer schools and workshops</b> <p>(2023) <i>Bayes at CIRM: Autumn school in Bayesian Statistics</i>, Marseilles, FR.</p> <p>(2022) <i>SELECT - Climbing mortality model</i>, Misurina, IT.</p>

July 14<sup>th</sup>, 2025