

Resume

Baptiste Alglave

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GEODATICS / Lab-STICC
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Research Interests

Applied statistician with interest in spatial and spatio-temporal statistics for ecology and environmental sciences. Current work focuses on integrating heterogeneous data sources, preferential sampling, change of support, and dimension reduction methods.

Keywords: spatial statistics, ecology, species distribution, climate change, urban climate.

Positions & Education

2023– **Associate Professor in Statistics**, *Université Bretagne Sud*, Vannes, France.
GEODATICS team, Lab-STICC (UMR 6285).

2023 **Postdoctoral Researcher**, *University of Washington / NOAA*, Seattle, USA.
Species spatio-temporal modeling under climate change.

2019–2022 **PhD in Statistics & Ecology**, *Ifremer / Institut Agro Rennes*, France.
Spatio-temporal species distribution modeling; preferential sampling & change of support.

Selected Publications

- 2025 Alglave B., Mourguiart B., Vermard Y., Rivot E., Woillez M., Kristensen K., Etienne M.P. (2025). *Change of support for zero-inflated data: deriving fine scale species distribution inferences from spatially aggregated data*. *Journal of the Royal Statistical Society Series C: Applied Statistics*. [link](#)
- 2025 Michel M., Alglave B., Olmos M., Torterotot M., Virgili A., Martin-Marin S., Royer J.Y., Samaran F. (2025). *Modeling the influence of environmental factors on the acoustic presence of blue whale populations in the Southern Indian Ocean*. *Scientific Reports (Nature)*. [link](#)
- 2024 Alglave B., Olmos M., Casemajor J., Etienne M.P., Rivot E., Woillez M., Vermard Y. (2024). *Investigating fish reproduction phenology and essential habitats by identifying the main spatio-seasonal patterns of fish distribution*. *ICES Journal of Marine Science*. [link](#)

Selected Conference Talks

- 2025 Alglave B., Besnard P., Bernard J., Bocher E., Goussef M., Leconte F. (2024). *Typology of French municipalities based on urban heat island factors*. *Spatial Analysis and GEOmatics (SAGEO)*. Avignon, France, May 2025. [link](#)
- 2024 Alglave B., Obakrim S., Dufée B., Thorson J.T. (2024). *How best to ordinate spatio-temporal data?* *International Statistical Ecology Conference*, Swansea, United Kingdom, July 15–19, 2024. [link](#)
- 2024 Alglave B., Etienne M.P., Vermard Y., Woillez M., Rivot E. (2024). *Integrating massive and heterogeneous spatio-temporal data in environmental science and ecology. Fisheries as case of application*. *Fifteenth International Conference on Geostatistics for Environmental Applications (GeoENV)*. Chania, Greece, June 19–21, 2024. [link](#)

Supervision

- PhD L. Le Grogneq (urban wind modeling; since 2024). A. Hebert (Holothuria dynamics; since 2025).
- Masters P. Besnard (urban heat typology, 2024). F. Quemper (spatio-temporal ecology, 2021).