

Resume

Baptiste Alglave

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GEODATICS / Lab-STICC

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🌐 Website

Research Interests

Applied statistician with interest in spatial and spatio-temporal statistics for ecology and environmental sciences. Since my PhD, I have developed statistical methods to infer and analyse the spatio-temporal distribution of ecological species. As a member of the GIS group of the Lab-STICC I extend my research focus to urban climate and spatial planning.

> Key words: spatial and spatio-temporal statistics, hierarchical modeling, dimension reduction, ecology.

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**, Ifremer / Institut Agro Rennes, France.
Spatio-temporal species distribution modeling; hierarchical model, preferential sampling, change of support.

Selected Publications

- 2025 Alglave B., Mourguia B., Vermaud 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., Vermaud 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., Gousseff M., Leconte F. (2024). *Identifying urban profiles with regard to overheating factors. Application to French municipalities* 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., Vermaud 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 Grogne (urban wind modeling; since 2024). A. Hebert (Holothuria dynamics; since 2025).
Masters P. Besnard (urban heat typology, 2024). F. Quemper (spatio-temporal ecology, 2021).