

# Resume

Baptiste Alglave

IUT Vannes – University Bretagne Sud

GEODATICS / Lab-STICC

☎ (+33) 2 97 62 64 68

✉ baptiste.alglave@univ-ubs.fr

🌐 Website

## Research Interests

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

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

## Positions & Education

2023– **Associate Professor of 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., 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., 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., 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).