

Julien GIBAUD

Teaching fellow

IMAG
University of Montpellier
Place Eugène Bataillon
34090 Montpellier - France
(office 121, building 9)

✉ julien.gibaud@umontpellier.fr
🐙 <https://github.com/julien-gibaud>
🌐 <https://julien-gibaud.github.io/>



Professional experience

- 2022 – 2023 📌 **Teaching fellow**, Paul Valéry University - Montpellier 3, France
- 2019 – 2022 📌 **PhD student without teaching activity**, University of Montpellier, Institut Montpelliérain Alexander Grothendieck (IMAG), France, supervised by Catherine TROTTIER and Xavier BRY

Education


- 2019 – 📌 **PhD in Statistics**, University of Montpellier, IMAG, France
Title: *Supervised component-based generalized linear regression for the jointly modelisation of the responses*
- 2017 – 2019 📌 **Master in Applied Mathematics**, University of Toulouse, France
Specialization: *Applied mathematics for engineering, industry and innovation*
- 2013 – 2016 📌 **Bachelor in Mathematics**, University of Albi, France
Specialization: *General mathematics*

Scientific productions


Summary of my research activities

- 1 📌 Article in international refereed journal
- 1 📌 Submitted article
- 2 📌 Talks in international conferences
- 4 📌 Talks in national conferences
- 4 📌 Seminars
- 1 📌 Software



Articles in international refereed journals

- 1  **Gibaud J.**, Bry X., Trottier C., Mortier F. and Réjou-Méchain M. (2022). Response mixture models based on supervised components: Clustering floristic taxa. *Statistical Modelling*





Submitted articles

- 1  Heuclin B., **Gibaud J.**, Mortier F., Trottier C., Tisné S. and Denis M. Bayesian sparse group selection with indexed regressors within groups: the group fused horseshoe prior. *Submitted to Journal of Agricultural, Biological and Environmental Statistics*





Talks in international conferences

- 2  **Gibaud J.**, Bry X. and Trottier C., “Supervised Component-based Generalized Linear Regression with conditionally covarying responses”, *24th International Conference on Computational STATistics*, Bologna, Italy (2022)
- 1  **Gibaud J.**, Bry X. and Trottier C., “Response clustering in component-based GLM”, *19th Conference of the Applied Stochastic Models and Data Analysis international society (virtual event)*, Athens, Greece (2021)


Talks in national conferences

- 4  **Gibaud J.**, Bry X. and Trottier C., “Modèles linéaires généralisés multivariés à composantes supervisées et facteurs latents, avec partitionnement thématique des variables explicatives”, *53èmes Journées de Statistique de la Société Française de Statistique*, Lyon, France (2022)
- 3  **Gibaud J.**, “Régression linéaire généralisée multi-tableaux sur composantes supervisées pour les modèles à facteurs latents”, *9ème Rencontre des Jeunes Statisticien-nnes*, Porquerolles, France (2022)
- 2  **Gibaud J.**, Bry X. and Trottier C., “Régression linéaire généralisée sur composantes supervisées pour les modèles à facteurs latents”, *52èmes Journées de Statistique de la Société Française de Statistique (événement en ligne)*, Nice, France (2021)
- 1  **Gibaud J.**, Bry X. and Trottier C., “Supervised Component-based Generalized Linear Regression with finite mixture models of responses”, *41st Conference on Applied Statistics in Ireland (virtual event)*, Maynooth, Ireland (2021)


Seminars

- 4  **Gibaud J.**, Bry X. and Trottier C., “Modèles linéaires généralisés multivariés à composantes supervisées et facteurs latents, avec partitionnement thématique des variables explicatives”, *ANR GAMBAS meeting*, Montpellier, France (2022)
- 3  **Gibaud J.**, Bry X. and Trottier C., “Modèles linéaires généralisés multivariés à composantes supervisées et facteurs latents, avec partitionnement thématique des variables explicatives”, *Seminar for PhD students*, Montpellier, France (2022)
- 2  **Gibaud J.**, Bry X. and Trottier C., “Régression linéaire sur composantes supervisées pour les modèles à facteurs latents”, *Structural dependency modeling working group*, Montpellier, France (2021)
- 1  **Gibaud J.**, Bry X. and Trottier C., “Régression linéaire généralisée sur composantes supervisées pour la modélisation jointe des réponses”, *Seminar for PhD students*, Montpellier, France (2020)

Software




- 1  Development of the R package **rmSCGLR**. This package is available at <https://github.com/julien-gibaud/rmSCGLR>.

Research projects


- 2019 – 2023  Member of the GAMBAS project, “Generating Advances in Modeling Biodiversity And ecosystem Services: statistical improvements and ecological relevance of joint species distribution models”. This project is funded by the French Agence Nationale de la Recherche (ANR-18-CE02-0025). Coordinator : Frédéric MORTIER.

Teaching activities

Paul Valéry University - Montpellier 3, France

- 2022 – 2023  Descriptive statistics in social sciences (First year, 67 hours) ; Stat Miashs (L1, TD, 18h) ; Bivariate probabilities and statistics (Second year, 20 hours) ; Stat prépro S3 (L2, TD, 30h) ; Stat prépro S4 (L2, TD, 36h) ; Multivariate statistics (Fourth year, 21 hours)
- 2020 – 2021  Descriptive statistics in social sciences (First year, 36 hours)
- 2019 – 2020  Descriptive statistics in social sciences (First year, 36 hours)

Involvement in the scientific life

- 2021 – 2022  Co-organizer of the seminar for PhD students at the IMAG with Nathan LOMBARD and Raphaël PAEGELOW.