David Nemer

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Languages

- French
- English
- Arabic

General soft skills

- Communication
- Adaptability
- Time management
- Stress management

Profile

Data scientist and R/Shiny developer with a Ph.D. in Ecology, currently working at AgroParistech on species distribution modeling and spatial data analysis within the SEEDFOR project. Fluent in English with strong experience in interactive shiny app development, machine learning workflows, and statistical modeling. Passionate about building smart, user-friendly tools that support scientific and operational decision-making.

Professional experiences

- **Postdoctoral Researcher - Data Scientist, AgroParistech, Nancy, France | 2024 - Present**
- Building species distribution models using machine learning and ecological data.
- Developer of "TuneSDM, TuneSDM-doc" a Shiny app for automated machine learning.
- Collaborating in an international, English-speaking research environment.

- **Doctoral Researcher - University of Bordeaux Bordeaux, France | 2020 - 2023**
- Conducted statistical analyses of ecological data using R.
- Published 11 peer-reviewed scientific articles in English.
- Collaborated with international teams.

Education

- 2019 - 2023: Ph.D. in ecology - University of Bordeaux faculty of sciences and technology – France
- 2017 - 2018: Master 2 in ecology - University of Bordeaux faculty of sciences and technology – France

Computer expertise

- Microsoft Office
- R programming language
- SQL
- Shiny
- Github
- HTML/CSS/JS

Certifications in data science

- **Shiny fundamentals with R**

https://www.datacamp.com/statement-of-accomplishment/track/a383354de5dd897c0b047445149871d5d74281c7?raw=1

- **Data Scientist with R**

https://www.datacamp.com/statement-of-accomplishment/track/3cbd466f5f5c072c60dc61cac6dd8c01fd4b6fef?raw=1

- **Data analyst with R**

https://www.datacamp.com/statement-of-accomplishment/track/6b5526941eab37b5a3521cdfdde9b657e0c814c3

- **Data analyst in SQL**

https://www.datacamp.com/statement-of-accomplishment/track/68d5dba0fbe7a0c3454bac0b1b878e3f2d678d45

- **Supervised learning in R: Classification**

https://www.datacamp.com/statement-of-accomplishment/course/73d3f1fdf79eb91747b6e0bda005e3ff26c51270?raw=1

- **Bayesian modeling with RJAGS**

https://www.datacamp.com/statement-of-accomplishment/course/f917fabb3ad5282d6c8328bad431b1a3ce41c9f7?raw=1

- **Fundamentals of bayesian data analysis in R**

https://www.datacamp.com/statement-of-accomplishment/course/e5d97a567a9ace6709ca5c0328873c35884194df?raw=1

- **Reporting with R markdown**

https://www.datacamp.com/statement-of-accomplishment/course/7f2cf50da99f4f55dd8fefc102039708d76a8ff8?raw=1

- **Structural equation modeling with lavaan in R**

https://www.datacamp.com/statement-of-accomplishment/course/1b021ebe4327cdfd0b7c396305aedb760e5f54a5?raw=1

- **Data manipulation with dplyr**

https://www.datacamp.com/statement-of-accomplishment/course/90b0d7e1b926f0c2df87d055509f8412fa8f8a25

- **Intermediate data visualization with ggplot2**

https://www.datacamp.com/statement-of-accomplishment/course/637aaef63cc296e91b5a6d2d2c2bee8f9640cec5

- **Introduction to bioconductor in R**

https://www.datacamp.com/statement-of-accomplishment/course/24d377a1a7bcefb9f84e853b0d78f6d8d3068475

- **Introduction to Power BI**

https://www.datacamp.com/statement-of-accomplishment/course/19f207d5ad0d982ef204a84b80e187bdd3356e72

Scientific publications

- **Nemer, D., Liancourt, P., Delerue, F., Randé, H., & Michalet, R. (2021). Species stress tolerance and community competitive effects drive differences in species composition between calcareous and siliceous plant communities. *Journal of Ecology*, *109*(12), 4132-4142. https://doi.org/10.1111/1365-2745.13785**

- **Nemer, D., Michalet, R., Randé, H., Sappin-Didier, V., & Delerue, F. (2022). Higher facilitation for stress-intolerant ecotypes along a metal pollution gradient are due to a decrease in performance in absence of neighbours. *Oikos*, *2022*(12), e09499. https://doi.org/10.1111/oik.09499**

- **Nemer, D., Michalet, R., Randé, H., & Delerue, F. (2023). The role of ecotypic variation for plant facilitation in a metal-polluted system: Stress-intolerant target ecotypes are the best beneficiaries and stress-tolerant nurse ecotypes the best benefactors. *Science of The Total Environment*, 164134. https://doi.org/10.1016/j.scitotenv.2023.164134**

- **Douaihy, B., Maamary, A., Yammine, R., Fridlender, A., Nemer, D., Delerue, F., & Michalet, R. (2022). Forest canopy and mistletoe infestation alter the facilitative effects of Juniperus oxycedrus sl on woody seedlings on Mount Lebanon (Lebanon). *Journal of Vegetation Science*, e13163. https://doi.org/10.1111/jvs.13163**

- **Randé, H., Michalet, R., Nemer, D., Sappin-Didier, V., & Delerue, F. (2023). Contrasting soil-and canopy-nurse effects in metalliferous systems may be explained by dominant plant functional strategies. *Journal of Applied Ecology*, *60*(2), 278-290. https://doi.org/10.1111/1365-2664.14329**

- **Michalet, R., Nemer, D., & Delerue, F. (2023). Canopy buffering effects against climatic extremes of deciduous broad-leaved forests are higher on calcareous than siliceous bedrocks. *Oikos*, e09755. https://doi.org/10.1111/oik.09755**

- **Randé, H., Michalet, R., Nemer, D., & Delerue, F. (2023). Relative contribution of canopy and soil effects between plants with different metal tolerance along a metal pollution gradient. *Science of The Total Environment*, 166905. https://doi.org/10.1016/j.scitotenv.2023.166905**

Hobbies and personnel interests

Football | Hiking | Swimming | Travelling | Reading | Music