

Hadjer Smati

Doctoral Researcher

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Research group: Integrative recreational fisheries management

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Nationality: Algerian, French | Date of birth: July 5, 1994.

Education

2024-Present	Humboldt Universität (HU) Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) Integrative Research Institute on Transformations of Human-Environment Systems (IRI THESys) Berlin, DE. Ph.D. Student <i>Thesis:</i> The Human Dimensions of Natural Resource Investment Decisions: The Recreational Fisheries case.
2021-2023	European Institute for Marine Studies (IUEM) Agro Rennes-Angers Institute University of Western Brittany (UBO) Rennes, Brest, FR. Master's Degree in Applied Economics for the Sea, Environment and Agriculture. <i>Thesis:</i> Reducing the environmental impacts of the North Sea ground fish fisheries using Alaska's management strategy as example.
2015-2020	National High School for Marine Sciences and Coastal Development (ENSSMAL) Algiers, ALG. Diploma of State Engineering degree in Marine sciences and coastal development. Double diploma of Masters' degree in marine and Continental Hydrobiology. Specialization in Marine Biotechnology. <i>Thesis:</i> Preliminary Inventory and Characterization of (84) Species of Marine Macro-algae with Biotechnological potential in Algeria (1st class, Excellent).
2017-2020	<i>Graduate cycle:</i> Marine Living Resources Marine and Continental Hydrobiology.
June 2017	National Entrance Examination for Higher Education Institutions in Marine sciences and coastal development (Modules of examination: Marine physics, Hydrology, Biochemistry, Genetics, Water chemistry, English) Algiers, ALG.
2015-2017	<i>Undergraduate cycle:</i> Integrated preparatory classes in Marine Sciences and Coastal Development.

Experience

Mar-Aug 2023	Research internship Wageningen University and Research (WUR) Wageningen Economic Research Wageningen, NL. Development of two fisheries management scenarios by: Exploring harvest levels, and setting maximum ecosystem catch limits and quotas reallocation from Gini Index analysis. Poster preparation for the ICES Annual Science Conference 2023 in Bilbao, Spain.
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2022	Time in Laboratory UMR AMURE (Joint Research Unit on the Uses of Maritime Resources and Areas) Brest, FR. Summary of issues under negotiations for the finalization of the treaty (BBNJ). Synthesis report Poster presentation.
2019-2020	Research internship National High School for Marine Sciences and Coastal Development (ENSSMAL) Algiers, ALG. Design of 84 macroalgae species ecological cards for the Algerian marine biodiversity database. Exploring the valorization of 9 macroalgae to produce phycocolloids and bioactive compounds for human food, animal feed, pharmacology, cosmetics, biodiesel production, and environmental monitoring.
2019	Industrial Water and Effluent Quality Controller Intern at “Tchin-Lait” Algiers, ALG Physicochemical and microbiological research conducted on processed waters. Analysis of effluents and Evaluation of turbidity.
2018	Field-based internship Technical Training School of Fisheries and Aquaculture (EFTPA). Sampling and Identification of species (Taxonomy of fauna and flora) Oran, ALG.

Conferences | Workshops Presentations

3 Nov 2025	“Modeling Social-Ecological Systems with Fuzzy Cognitive Mapping” Workshop. Berlin, DE. <i>Smati, H., Theis, S., Riepe, C., & Arlinghaus, R. (2025). Assessing the heterogeneity in management approaches among German recreational angler communities: An archetype approach.</i>
27-31 Oct 2025	Earlier Version in : Proceedings of the “Scientific Writing Workshop” at Leibniz-Institute of Freshwater Ecology and Inland Fisheries. Berlin, DE.
29 Sep – 1 Oct 2025	Oral presentation at the “Governing commons and urban community Session”, 8th International Workshop on Archetype Analysis in Sustainability Research. Thünen Institute. Braunschweig, DE. <i>Smati, H., Mäurer, S., Riepe, C., & Arlinghaus, R. (2025). Anglers support for fish stocking: What explains it?</i>
7-10 Sep 2025	Oral presentation at the “Impact on Recreational Fishing Session”, Pathways 2025 Conference: Human Dimensions of Wildlife “Appreciating Nature’s Benefits”, YMCA of the Rockies, Estes Park, Colorado, United States.
1–3 July 2025	Poster presentation at the “ <i>Deutscher Fischereitag</i> ” and Science Slam 1 Minute Talk. Nurnberg, DE.

Skills | Fellowships | Awards| Interests

Languages	Arabic: mother tongue French: bilingual English: proficient user (IELTS Academic 2023) German: beginner.
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Programming Data analysis	R, SPSS, Statistica, Stata, Excel, QGIS, ArcGis, Microsoft Office suite.
Field	Sampling of phytoplankton, Zooplankton, and macro-algae. Collection of sediments, water samples, and in situ measurements (e.g., PH, Salinity, Temperature.) Conducting structured and semi-structured interviews with commercial and recreational fisherman. Data collection on fishing effort, species targeting and socio-economic indicators.
Biotechnological	Extraction and characterization of biotechnological compounds from (macroalgae, fish, and crustacean). Chromatographic techniques for biochemical assays. Microscopic identification of phytoplankton and zooplankton communities.
2025	PATHWAYS 2025: Human Dimensions of Wildlife Conference, Scholarship Recipient. <i>Deutscher Fischereitag</i> , Poster Presentation, Participation Grant.
2024	Selected for a Doctoral Scholarship from the Jameel Scholarship Fund at Humboldt-Universität zu Berlin to finance my Ph.D. project.
2023	<i>IsBlue</i> scholarship funded part of my internship at Wageningen Economic Research.
2022-2023	French Ministry of Agriculture and Food Sovereignty Scholarship.
2021-2022	French Ministry of Higher Education and Research Scholarship.

Academic & Professional Interests

My academic interests lied in marine and freshwater sustainability and governance, with a particular focus on:
Human dimensions of fisheries management | Psychological and socioeconomic factors influencing sustainable resource use | Blue innovations, blue economy and marine biotechnology.

In the future I aim to collaborate on interdisciplinary research connecting marine and freshwater ecology, and social sciences to support sustainable fisheries management and effective communication of scientific knowledge.

References

Dr. Denis Bailly

Senior lecturer in Environmental Economics
University of Brest (UBO)
AMURE – Center for Law and Economics of the Sea
Ocean University Initiative coordinator (<https://ocean-univ.org>)
Email: denis.bailly@univ-brest.fr

Mr. Amine Kabrane

Teacher-Researcher at University of Sciences & Technology Houari Boumediene (USTHB) - Previously at École Nationale Supérieure des Sciences de la Mer et de l'Aménagement du Littoral (ENSSMAL) - Algiers / Algeria
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