

# Leïla Ezzat, PhD – Environmental Scientist

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Born April 4th, 1987 in Switzerland

## EDUCATION

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2021 – present: **Journalism training in Freelance and Travel Writing** – The London School of Journalism (remote)

24/09/2013 – 22/09/2016: **Ph.D in Environmental Sciences** - Sorbonne University (Paris VI, ED129, France) and Scientific Centre of Monaco (MC) - supervised by Dr. Christine Ferrier-Pagès and Dr. Renaud Grover.

PhD thesis: *“The effects of nutrient availability on the physiological response of reef-building corals in the context of climate change”*

17/09/2007 – 06/10/2012: **Master & Bachelor in Environmental Sciences and Engineering** Ecole Polytechnique Fédérale de Lausanne (EPFL – Switzerland)

## EMPLOYMENT & PROFESSIONAL EXPERIENCES

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Spring 2025: **Consulting in Environmental Sciences (Freelance)**

Conceptualization of research projects, writing proposals, experimental design, coordination and logistics support, and data analysis.

01/01/2023 – 31/12/2024: **Marie Skłodowska-Curie Research Fellow – UMR MARBEC 9190, University of Montpellier (France)**. Subject: *“Impacts of wastewater pollution on parrotfish in Mayotte: from physiological to microbial scales”* supervised by Dr. Sébastien Villéger & Prof. Elliott Sucre

01/01/2021 – 31/12/2022: **Postdoctoral Researcher – RIVER Ecosystems Laboratory (EPFL, Switzerland)**. Subject : *“Global diversity and biogeography of the glacier-fed stream microbiomes”* supervised by Prof. Tom Battin

01/06/2017 – 30/11/2020: **Swiss National Science Foundation Research Fellow - University of California, Santa Barbara (UCSB - USA)**. Subject: *“Implications of global and local stressors for coral reef trophic interactions: from macro to microbial scales”* supervised by Prof. Deron Burkepile and Prof. Rebecca Vega Thurber (UCSB – OSU, USA)

01/12/2016 – 30/04/2017: **Postdoctoral Researcher at the Scientific Centre of Monaco (MC)**

01/11/2012 – 28/02/2013: **Internship in the Rohwer laboratory at San Diego State University (SDSU - USA)**. Subject: *“The culture of coral cells”* supervised by Pr. Forest Rohwer and Dr. Steven Quistad

01/04/2013 – 30/09/2013: **Internship at the Scientific Centre in Monaco (MC)**. Subject: *“The effects of nutrient enrichments on reef-building corals”* supervised by Dr. C. Ferrier-Pagès

01/02/2010 – 30/06/2012: **Master internship at the Scientific Centre of Monaco (MC) and the University of Nice (France)**. Master thesis: *“The response of the Mediterranean gorgonian Eunicella singularis to thermal stress is independent of its nutritional regime”* supervised by Pr. Alexandre Buttler (EPFL), Pr. Paola Furla & Dr. Pierre-Laurent Merle (Univ. Of Nice) and Dr. Christine Ferrier-Pagès (CSM).

01/07/2011 – 31/08/2011: **Internship at the Laboratoire d’Océanographie de Villefranche (LOV) in Villefranche-sur-mer (France)**. Subject: *“Vertical distribution in coral reef fish larvae near Barbados”* supervised Dr. Jean-Olivier Irisson

01/07/2010 – 31/08/2010: Internship at the UMR 5805 Environnements et Paléoenvironnements Océaniques et Continentaux at the University of Bordeaux I (France). Subject : “Morphometric study of modern and fossil pine pollen grains” supervised by Dr. Stéphanie Desprat

## FUNDINGS & FELLOWSHIPS

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01/01/2023 – 30/06/2024: LABEX CEMEB – with Dr. Villéger - 19,564 €  
01/01/2023 – 31/12/2024: CNRS - Ecosphère Continentale et Côtière (EC2CO) – with Dr. Villéger – 26,293 €  
01/01/2023 – 31/12/2024: Marie Skłodowska-Curie Postdoctoral Fellowship – 184,707 €  
01/01/2019 – 30/06/2020: SNSF Postdoc Mobility Fellowship – 90,500 CHF  
01/06/2017 – 30/11/2018: SNSF Early Postdoc Mobility Fellowship – 83,150 CHF  
01/02/2015: Travel grant - Murray Foundation – 450€  
1/02/2012: ERASMUS Grant EPFL – University of Nice – 800 CHF

## PEER-REVIEWED PUBLICATIONS

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32. Kochoska H., Kohler T., Kollar J., Kopalova K., [Ezzat L.](#), Michoud G., Peter H., Bourquin M., Busi S & Battin TJ. (2025). *Glacier-fed stream diatoms (Bacillariophyta) from the Rwenzori Mountains, Uganda with the description of one new species from the genus Neidium*. [Accepted Diatom Research](#)
31. Bourquin M., Peter H., Michoud G., Busi S., Kohler TJ., Robison A., Styllas M., [Ezzat L.](#), Geers A., Huss M., Fodelianakis S., The Vanishing Glaciers field Team and Battin TJ. (2025). *Predicting climate-change impacts on the global glacier-fed stream microbiome*. [Nature Communication](#). DOI: 10.1038/s41467-025-56426-4
30. Michoud G., Peter H., Busi S., Bourquin M., Kohler T., Geers A., [Ezzat L.](#), the Vanishing Glaciers Field Team and Battin T. (2025). *Mapping the metagenomic diversity of the multi-kingdom glacier-fed stream microbiome*. [Nature Microbiology](#). DOI: 10.1038/s41564-024-01874-9
29. [Ezzat L.](#), Peter H., Bourquin M., Busi S., Michoud G., Fodelianakis S, Kohler TJ., Lamy T., Geers A., Pramateftaki P., Baier F., Marasco R., Daffonchio D., Deluigi N., Wilmes P., Styllas M., Schön M., Tolosano M., De Staercke V and Battin TJ. (2025). *Diversity and biogeography of the glacier-fed stream bacterial microbiome*. [Nature](#). DOI: 10.1038/s41586-024-08313-z
28. Geers A., Michoud G., Busi S., Peter H., Kohler T., [Ezzat L.](#), the Vanishing Glaciers Field Team and Battin TJ. (2024). *Deciphering the biosynthetic landscape of biofilms in glacier-fed streams*. [mSystems](#). DOI: 10.1128/msystems.01137-24
27. Busi S., Peter H., Brandani J., Kohler TJ., Fodelianakis S., Pramateftaki P., Bourquin M., Michoud G., [Ezzat L.](#), Lane S., Wilmes P and Battin TJ. (2024) *Cross-domain interactions confer stability to benthic biofilms in proglacial streams*. [Frontiers in Microbiomes](#). DOI: 10.3389/frmbi.2023.1280809
26. Van Wert J., [Ezzat L.](#), Munsterman K., Landfield K., Schiettekatte N., Parravicini V., Casey J., Brandl S., Burkepille D & Eliason E. (2023) *Fish feces reveals diverse nutrient niches for coral reef fishes*. [Ecology](#). DOI : 10.1002/ecy.4119
25. Michoud G., Kohler T., [Ezzat L.](#), Peter H., Kigongo Nattabi J., Nalwanga R., Pramateftaki P., Styllas M., Tolosano M., De Staercke V., Schön M., Marasco R., Daffonchio D., Bourquin M., Busi S & Battin TJ. (2023). *The dark side of the moon: First insights into the microbiome structure and function of one of the last glacier-fed streams in Africa*. [Royal Society Open Science](#). DOI : 10.1098/rsos.230329
24. Brandani J., Fodelianakis J., Peter H., Kohler T., Bourquin M., Michoud G., Busi S., [Ezzat L.](#), Lane S & Battin TJ. (2023). *Homogeneous environmental selection structures the bacterial communities of proglacial floodplain streams*. [Applied and Environmental Microbiology](#). DOI : 10.1128/aem.02010-22

23. Bhanu Busi S., De Nies L., Pramateftaki P., Bourquin M., Kohler TJ., **Ezzat L.**, Fodelianakis S., Michoud G., Peter H., Styllas ., Tolosano M., De Staercke V., Schön M., Galata V., Wilmes P and Battin TJ. (2023). **Glacier-fed stream biofilms harbour diverse resistomes and biosynthetic gene clusters.** *Microbiology Spectrum*. DOI : 10.1128/spectrum.04069-22
22. Shantz A., Ladd M., **Ezzat L.**, Schmitt R., Holbrook S., Schmeltzer E., Vega Thurber R & Burkepille D. (2022). **Positive interactions between corals and damselfish increase coral resistance to temperature stress.** *Global Change Biology*. DOI : 10.1111/gcb.16480
21. Brandani J., Peter H., Busi S., Kohler TJ., Fodelianakis S., **Ezzat L.**, Michoud G., Bourquin M., Pramateftaki P., Roncoroni M., Lane S and Battin TJ. (2022). **Spatial patterns of benthic biofilm diversity among streams draining proglacial floodplains.** *Frontiers in Microbiology*. DOI : 10.3389/fmicb.2022.948165
20. **Ezzat L.**, Fodelianakis S., Kohler TJ., Bourquin M., Brandani J., Busi SB., Daffonchio D., De Staercke V., Marasco R., Michoud G., Oppliger E., Peter H., Pramateftaki P., Schön M., Styllas M., Tadei V., Tolosano M and Battin TJ. (2022). **Benthic biofilms in glacier-fed streams from Scandinavia to the Himalayas host distinct bacterial communities compared with the streamwater.** *Applied and Environmental Microbiology*. DOI:10.1128/aem.00421-22
19. Kohler TJ., Fodelianakis S., Michoud G., **Ezzat L.**, Bourquin M., Peter H., Bhanu Busi S., Pramateftaki P., Deluigi N., Styllas M., Tolosano M., de Staercke V., Schön M., Brandani., Marasco R., Daffonchio D., Wilmes P., and Battin TJ. (2022). **Glacier shrinkage, photoautotrophic biomass and a complex microbiome collectively affect decomposition in glacier-fed streams.** *Global Change Biology*. DOI: 10.1111/gcb.16169
18. Bhanu Busi S., Bourquin M., Fodelianakis S., Michoud G., Kohler TJ., Peter H., Pramateftaki P., Styllas M., Tolosano M., De Staercke V., Schön M., de Nies L., Marasco R., Daffonchio D., **Ezzat L.**, Wilmes P and Battin TJ. (2022). **Genomic and metabolic adaptations of biofilms to ecological windows of opportunities in glacier-fed streams.** *Nature Communications*. DOI: 10.1038/s41467-022-29914-0
17. Bourquin M., Bhanu Busi S., Fodelianakis S., Peter H., Washburne A., Kohler TJ., **Ezzat L.**, Michoud G., Wilmes P and Battin TJ. (2022). **The microbiome of cryospheric ecosystems.** *Nature Communications*. DOI: 10.1038/s41467-022-30816-4
16. Leray M., Wilkins L., Apprill A., Bik H., Clever F., Connolly S., De León M., Duffy E., **Ezzat L.**, Gignoux-Wolfsohn S., Herre AE., Kaye J., Kline D., Kueneman J., McCormick M., McMillan O., O’Dea A., Pereira T., Petersen J., Petticord D., Torchin M., Vega Thurber R., Videvall E., Wcislo W., Yuen B. and Eisen JA. (2021). **Natural experiments and long-term monitoring are critical to understand and predict marine host-microbe ecology and evolution.** *PLoS Biology*. DOI: 10.1371/journal.pbio.3001322
15. **Ezzat L.**, Merolla S., Clements C., Munsterman K., Landfield K., Duran Stensrud C., Schmeltzer E., Burkepille D and Vega Thurber R. (2021). **Thermal stress interacts with surgeonfish feces to increase coral susceptibility to dysbiosis and reduce tissue regeneration.** *Frontiers in Microbiology*. DOI: 10.3389/feco.2020.555698
14. Maher R., Schmeltzer E., Meiling S., McMinds R., **Ezzat L.**, Shantz A., Adam T., Schmitt RJ., Holbrook SJ., Burkepille DE and Vega Thurber R. (2020). **Coral microbiomes demonstrate flexibility and resilience through a reduction in community diversity following a thermal stress event.** *Frontiers in Ecology & Evolution*. DOI: 10.3389/feco.2020.555698
13. **Ezzat L.**, Lamy T., Maher R., Munsterman K., Landfield K., Schmeltzer E., Clements C., Vega Thurber R and Burkepille D. (2020). **Parrotfish predation drives distinct microbial communities in reef-building corals.** *Animal Microbiome*. DOI: 10.1186/s42523-020-0024-0
12. Iori S., Dalla Rovere., **Ezzat L.**, Smits M., Mazzariol S., Ferraresso S., Babbucci M., Marin M., Masiero L., Fabrello J., Garro E., Carraro L., Cardazzo B., Patarnello T., Matozzo V., Bargelloni L and Milan M. (2020). **Ecotoxicological**

*risk assessment for the herbicide glyphosate and its degradation product AMPA: Analysis of host and microbiota response in the mussel Mytilus Galloprovincialis*. [Environmental Research](#).

DOI: [10.1016/j.envres.2019.108984](https://doi.org/10.1016/j.envres.2019.108984)

11. [Ezzat L.](#), Lamy T., Maher R., Munsterman K., Landfield K., Schmeltzer E., Gaulke C., Burkepile D and Vega Thurber R. (2019). *Surgeonfish feces increase bacterial opportunism in reef-building corals*.

[Marine Ecology Progress series](#). DOI: [10.3354/meps1311](https://doi.org/10.3354/meps1311)

10. Burkepile D., Shantz A., Adam T., Munsterman K., Speare K., Ladd M., Rice M., [Ezzat L.](#), McIlroy S., Wong J., Baker D., Brooks A., Schmitt R and Holbrook S. (2019). *Nitrogen identity drives differential impacts of nutrients on coral bleaching and mortality*. [Ecosystems](#). DOI: [10.1007/s10021-019-00433-2](https://doi.org/10.1007/s10021-019-00433-2)

9. [Ezzat L.](#), Maguer JF., Grover R., Rottier C., Tremblay P and Ferrier-Pagès C. (2019). *Nutrient starvation impairs the trophic plasticity of reef-building corals under ocean warming*. [Functional Ecology](#). DOI: [10.1111/13652435.13285](https://doi.org/10.1111/13652435.13285)

8. Rice M., [Ezzat L.](#) and Burkepile D. (2019). *Corallivory in the Anthropocene: Interactive effects of anthropogenic stressors and corallivory on coral reefs*. [Frontiers in Marine Science](#).

DOI: [10.3389/fmars.2018.00525/full](https://doi.org/10.3389/fmars.2018.00525/full)

7. [Ezzat L.](#), Fine M., Maguer JF., Grover R and Ferrier-Pagès C. (2017). *Carbon and nitrogen acquisition of shallow and deep holobionts of the scleractinian coral *S. pistillata**. [Frontiers in Marine Sciences](#).

DOI: [10.3389/fmars.2017.00102](https://doi.org/10.3389/fmars.2017.00102).

6. [Ezzat L.](#), Maguer JF., Grover R and Ferrier-Pagès C. (2016). *Limited phosphorus availability is the Achilles heel of tropical reef corals in a warming ocean*. [Scientific Reports](#). DOI: [10.1038/srep31768](https://doi.org/10.1038/srep31768).

5. [Ezzat L.](#), Towle E., Irisson JO., Langdon C and Ferrier-Pagès C. (2016). *The relationship between heterotrophic feeding and inorganic nutrient availability in the scleractinian coral *T. reniformis* under a short-term temperature increase*. [Limnology and Oceanography](#). DOI: [10.1002/lno10200](https://doi.org/10.1002/lno10200).

4. [Ezzat L.](#), Maguer JF., Grover R and Ferrier-Pagès C. (2015). *New insights into carbon acquisition and exchanges within the coral-dinoflagellate symbiosis under  $NH_4^+$  and  $NO_3^-$  supply*. [Proceedings of the Royal Society London B.: Biological Sciences](#). DOI: [10.1098/rspb.2015.0610](https://doi.org/10.1098/rspb.2015.0610)

3. Desprat S., Díaz Fernández PM., Coulon T., [Ezzat L.](#), Pessarossi-Langlois J., Gil L., Morales-Molino C and Sánchez Goñi MF. (2015). *Pinus nigra (European black pine) as the dominant species of the last glacial pinewoods in south-western to central Iberia: a morphological study of modern and fossil pollen*. [Journal of Biogeography](#). DOI: [10.1111/jbi.12566](https://doi.org/10.1111/jbi.12566)

2. Grover R., Ferrier-Pagès C., Maguer JF, [Ezzat L.](#) and Fine M. (2014). *Nitrogen fixation in the mucus of Red Sea corals*. [The Journal of Experimental Biology](#). DOI: [10.1242/jeb.111591](https://doi.org/10.1242/jeb.111591)

1. [Ezzat L.](#), Merle P-L, Furla P, Buttler A, Ferrier-Pagès C. (2013). *The Response of the Mediterranean Gorgonian *Eunicella singularis* to Thermal Stress Is Independent of Its Nutritional Regime*. [PLoS ONE](#). DOI: [10.1371/journal.pone.0064370](https://doi.org/10.1371/journal.pone.0064370)

## PRESS RELATED TO PUBLICATIONS

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27/01/2025 – «Sion: des scientifiques d'ALPOLE découvrent de nouvelles formes de vie dans l'eau qui s'écoule des glaciers» – Le Nouvelliste

08/01/2025 – «Scientists discover a unique microbiome on our planet's roof» – EPFL news

06/01/2025 – «Des bactéries dans les ruisseaux glaciaires du monde entier» – Interview for Radio Télévision Suisse Romande (RTS; Switzerland)

01/2025 – «Les ruisseaux glaciaires grouillent de bactéries fascinantes, selon une étude de l'EPFL» – RTS

01/2025 – «Suprenante diversité microbienne dans les ruisseaux glaciaires» – Bluewin.ch

01/2025 – «Les écosystèmes des ruisseaux de glaciers transformés par le changement climatique» – Broadcast interview Rhône FM (Switzerland)

12/2022 – «As ice melts, biodiversity is lost» – Science.org

12/2022 – «Les microbes des glaciers, ces grands oubliés de la crise climatique» – Heidi.news

08/2021 – «Nature calls on the reefs: Fish feces, a common coral reef occurrence becomes a problem when temperature warms» - The UCSB Current

19/12/2019 – «Adding insult to injury - Even natural processes may become harmful to corals in the presence of multiple stressors» - The UCSB Current

14/01/2019 – «Nutrient starvation impairs the trophic plasticity of reef-building corals under ocean warming» - Functional Ecology, plain language summaries

19/10/2016 – Ezzat L. «Le Phosphore, essentiel au corail pour survivre au changement climatique» - The Conversation

25/08/2016 – «Elevated phosphate reduces coral bleaching» - Advanced Aquarist

17/09/2015 – «Nitrogen and phosphorus pollution alter the mutual relationship between corals and algae» European commission – Science for Environment Policy

30/09/2015 – «A Balanced Diet Is Good for Corals Too, Study Finds» - Science news line – Nature and Earth

## **OUTREACH & GENERAL AUDIENCE ARTICLES**

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20/03/2025 – Ezzat L., Battin T. «Fonte des glaciers : une diversité biologique invisible menacée» - **The Conversation**

01/2025 – Battin T., Ezzat L & Styllas M. «A first global atlas of the bacterial microbiome in the world's glacier-fed streams» - **Springer Nature**

20/01/2023 – Ezzat L. «How can reef fish-derived nutrients help corals under temperature stress? » **Coral Guardian (coralguardian.com)**

22/06/2022 – Ezzat L. «Unexpected fish biodiversity on coral reefs unraveled by environmental DNA» **Coral Guardian (coralguardian.com)**

30/03/2022 – Ezzat L. «Climate-impacted reefs may continue to supply vital micronutrients through fisheries» **Coral Guardian (coralguardian.com)**

09/03/2020 – Interview «L'Agonie des coraux en attente d'une mobilisation internationale» **Les Echos PLANETE (planete.lesechos.fr)**

09/03/2020 – Ezzat L. «Impacts des activités humaines sur la biodiversité au sein des récifs coralliens» **Le Monde (lemonde.fr) / Ocean & Climate Platform**

Fall 2019 – Ezzat L. «*Coral bleaching, an imminent threat to biodiversity*» **Ocean & Climate Platform** ([ocean-climate.org](http://ocean-climate.org))

Fall 2019 – Clements C., Ezzat L. «*Ticking off the reef: Overlooked coral tick predators threaten vulnerable corals*» **Wildlife Australia**, Vol. 56, N°1. ([wildlife.org.au](http://wildlife.org.au))

28/05/2019 – Ezzat L. «*Bioluminescence des organismes marins : le cas de la seiche lilliputienne d'Hawaï*». **Coral Guardian** ([coralguardian.com](http://coralguardian.com))

25/04/2019 – Ezzat L. «*Coral reef recruitment on the Great Barrier Reef affected by global warming*» **Coral Guardian** ([coralguardian.com](http://coralguardian.com))

28/02/2019 – Ezzat L. «*Corallivory in coral reefs* » **Coral Guardian** ([coralguardian.com](http://coralguardian.com))

22/01/2019 – Ezzat L. «*La biodiversité corallienne améliore la croissance et la santé des coraux*» **Coral Guardian** ([coralguardian.com](http://coralguardian.com))

24/07/2018 – Ezzat L. «*How rat density alters coral reef productivity*» **Coral Guardian** ([coralguardian.com](http://coralguardian.com))

3/07/2018 – Ezzat L. «*Coral reef growth affected by sea level rise*» **Coral Guardian** ([coralguardian.com](http://coralguardian.com))

01/06/2018 – Ezzat L. «*Les requins, de surprenants fertilisateurs naturels au sein des récifs coralliens*» **Futura Sciences** ([futura-sciences.com](http://futura-sciences.com))

24/04/2018 – Ezzat L. «*The Great Barrier reef: towards an ecological collapse*» **Coral Guardian** ([coralguardian.com](http://coralguardian.com))

27/03/2018 – Ezzat L. «*Plastic, a novel cause of coral disease*» **Coral Guardian** ([coralguardian.com](http://coralguardian.com))

14/06/2017 – Cruise A., Ezzat L. «*How a remote Indonesian island community is reclaiming its fishing heritage by restoring ruined coral reefs*» **National Geographic** ([blog.nationalgeographic.com](http://blog.nationalgeographic.com))

Fall 2016 – Ezzat L., Courtial L. «*Coral bleaching, an imminent threat to biodiversity*» **Ocean & Climate Platform** ([ocean-climate.org](http://ocean-climate.org))

## PRESENTATIONS, SEMINARS & CONFERENCES

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31/01/2025: **Presentation of transdisciplinary project at the Scientific Centre of Monaco** (Monaco, MC)  
«*Coastal microbiome dynamics under climate change and local human impacts*» (Oral presentation)

26/01/2025: **4<sup>th</sup> Conservation Day at Aquatis Aquarium-Vivarium** (Lausanne, CH)  
«*Climate Change Impacts on Glacier Ecosystem Biodiversity*» (Invited Speaker)

07/2024: **European Coral Reef Symposium** (Naples, IT)  
«*Gut microbiome and nutrient assimilation in parrotfish across a gradient of wastewater pollution in Mayotte*»  
(Oral Presentation)

18/10/2023: **Global Change Seminar Series, School of GeoSciences – The University of Edinburgh** (Edinburgh, UK)  
«*Microbial community dynamics in aquatic ecosystems – A journey from summits to seas*» (Oral presentation)

10/10/2023: **FRB-CESAB** (Montpellier, FR)  
«*Fish microbiomes, Current Approaches and Perspectives*» (Oral presentation)

06/08/2023-11/08/2023: **Ecological Society of America** (ESA, Portland, USA)  
*"Insights into the biogeography of the glacier-fed stream microbiomes"* (Oral presentation)

23/04/2023-28/04/2023: **General Assembly of European Geosciences Union** (EGU, Vienna, AT)  
*"Towards a global biogeography of benthic biofilm bacteria in the world's glacier-fed streams"*  
(Oral presentation)

07/12/2022: **Department of Microbial Ecology, University of Vienna** (Vienna, AT)  
*"Towards a global biogeography of benthic biofilm bacteria in the world's glacier-fed streams"*(Online)

09/10/2022-14/10/2022: **9th International Conference on Polar and Alpine microbiology** (Potsdam, GER)  
*"Towards a global biogeography of benthic biofilm bacteria in the world's glacier-fed streams"*(Oral presentation)

14/08/2022-19/08/2022: **18<sup>th</sup> International Symposium on Microbial Ecology** (ISME, Lausanne, CH)  
*"Towards a global biogeography of benthic biofilm bacteria in the world's glacier-fed streams"*  
(Poster presentation)

17/11/2021: **Lancaster Environment Centre - REEFS, Lancaster University** (Lancaster, UK)  
*"Common interactions with reef fishes can alter coral microbiomes"*(Oral presentation)

01/2021: **UMR MARBEC Weekly Seminar Series – University of Montpellier** (FR)  
*"Common interactions with reef fishes can alter coral microbiomes"* (Online presentation)

02/12/2019 – 06/12/2019: **Microbial Symbiosis Workshop Smithsonian Tropical Research Institute** (Panama)  
*"Common interactions with reef fishes can alter coral microbiomes"* (Oral Presentation)

03/09/2019 – 05/09/2019: **2<sup>nd</sup> International Fish Microbiota Workshop** (Eugene, USA)  
*"Surgeonfish feces increase microbial opportunism in reef-building corals"*(Oral Presentation)

14/07/2019 – 19/07/2019: **Gordon Research Conference – Marine Molecular Ecology** (Hong-Kong, CHN)  
*"Surgeonfish feces increase microbial opportunism in reef-building corals"* (Poster Presentation)

13/07/2019 – 14/07/2019: **Gordon Research Seminar – Marine Molecular Ecology** (Hong-Kong, CHN)  
*"Surgeonfish feces increase microbial opportunism in reef-building corals"*(Oral Presentation)

09/03/2018: **Venue of Wendy Schmidt** (Schmidt Ocean Foundation) at UCSB (Santa Barbara, USA)  
*"Implications of global and local stressors for coral reef trophic interactions: From macro to microbial scales"*  
(Oral Presentation in front of among others Prof. Douglas McCauley and Wendy Schmidt)

02/2018: **Ecology, Evolution and Marine Biology Department Seminar – UCSB** (Santa Barbara, USA)  
*"Implications of global and local stressors for coral reef trophic interactions: From macro to microbial scales"*  
(Oral Presentation)

13/12/2017 – 15/12/2017: **European Coral Reef Symposium** (Oxford, UK)  
*"Loss of autotrophic and heterotrophic capacities in nutrient starved corals under thermal and light stress"*  
(Oral Presentation)

02/06/2017: **Burkepile laboratory** (Santa Barbara, USA)  
*"Effects of inorganic nutrients on reef-building coral physiology"* (Oral Presentation)

22/09/2016: **PhD Defense** – (Monaco, MC)  
*"Effects of inorganic nutrients on reef-building coral physiology in the context of global change"* (Oral Presentation)

19/06/2016 – 24/06/2016: **13<sup>th</sup> International Coral Reef Symposium** (Honolulu, USA)  
“Phosphorus availability is the Achilles heel of reef-building corals under ocean warming”  
(Oral Presentation)

31/08/2015 – 04/09/2015: **Hjort Summer School** (Bergen, NO)  
“Effects of inorganic nutrients on reef-building coral physiology in the context of global change” (Oral Presentation)

01/12/2013 – 05/12/2013: **8<sup>th</sup> International Conference on Coelenterate Biology** (Eilat, IL)  
“The response of the Mediterranean gorgonian *Eunicella singularis* to thermal stress is independent of its nutritional regime”(Oral Presentation)

28/02/2013: **Rohwer Laboratory** – (San Diego, USA). “The culture of coral cells” (Oral Presentation)

## RESEARCH EXPEDITIONS

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**01/01/2023 – 07/2024:** Occasional field work in Frontignan, France. Fish processing and eDNA sample collection.

**05/07/2023 – 20/07/2023:** Field work conducted in the Yakarcha catchment, Tajikistan with the RIVER lab, EPFL and Swiss Polar Institute. Fieldwork planning, logistics onsite, sample collection.

**04/04/2023 – 16/04/2023:** Field work in Mayotte, France. Research conducted in collaboration with the University Research Centre of Mayotte (CUFR). Fieldwork planning, budget management, logistics, sample collection and surveys, sample processing, data analyses.

**01/01/2021-31/12/2022:** Occasional field work in the Swiss Alps, sampling in glacier-fed streams and monitoring.

**24/07/2018 – 04/09/2018** and **15/06/2017 – 03/08/2017:** Field work in Moorea, French Polynesia. Research conducted at the Gump Marine Station of the University of California Berkeley. Fieldwork planning, budget management, field sampling and manipulative experiments on shore, surveys.

**12/09/2015 – 28/09/2015** and **17/09/2013 – 02/10/2013:** Research conducted at the Interuniversity Institute for Marine Science in Eilat. Fieldwork planning, experimental design, pigment analyses, mesocosm experiments.

## ACTIVITIES IN ENVIRONMENTAL ASSOCIATIONS

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2013 – present: **Coral Guardian** Support Ecosystem Conservation | Science communication

2024 – present: **Madame Water** | Scientific Direction

## OTHER THINGS I LIKE TO DO

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Yoga, Rock climbing, Hiking trails (Himalayas, South America, European Alps), skiing, running, scuba diving and ukulele playing.

## REFERENCES

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