

Postdoctoral researcher interested in the emergence, maintenance and evolution of diversity in biological systems.

🎓 EDUCATION

July 2024 - today	Postdoctoral Researcher , UChicago, Chicago, IL USA
Feb-May 2024	Postdoctoral Researcher , Utah State University, Logan, UT USA
2018-2023	PhD - Quantitative Biosciences , Georgia Institute of Technology, Atlanta, GA USA
2018-2020	MS - Biology , Georgia Institute of Technology, Atlanta, GA USA
2016-2017	MS year 1 - Plant Biology , Montpellier University, France
2013-2016	BS, Biology and Applied Mathematics, Summa Cum Laude , University Pierre and Marie Curie, France

📖 PUBLICATIONS

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| 2024 | Kayla S. Stoy, Tony Burnetti, Sayantan Datta, Rozenn Pineau , Autumn Peterson, and William C. Ratcliff, <i>Adaptive radiation during the evolution of complex multicellularity</i> , The Evolutionary Journal of the Linnean Society , doi:10.1093/evolinnean/kzae008 |
| 2024 | R. Pineau , D. Demory, E. Libby, D. Lac, T. Day, P. Bravo, J. Weitz, O. Bozdag and W. Ratcliff, <i>Emergence and maintenance of stable coexistence during a long-term multicellular evolution experiment</i> , Nature Ecology and Evolution , doi:10.1101/2023.01.19.524803 |
| 2024 | R. Pineau , P. Kahn, D. Lac, M. Denning, W. Wong, W. Ratcliff and O. Bozdag, <i>Experimental evolution of multicellularity via cuboidal cell packing in fission yeast</i> , Evolution Letters , doi:10.1101/2023.11.03.565576 |
| 2021 | O. Bozdag, E. Libby, R. Pineau , C. Reinhard, and W. Ratcliff, <i>Oxygen suppression of macroscopic multicellularity</i> , Nature communications , doi:10.1038/s41467-021-23104-0 |
| 2020 | P. Márquez-Zacarías, R. Pineau , N. Gomez, A. Veliz-Cuba, D. Murrugarra, W. Ratcliff and K. Niklas, <i>Evolution of cellular differentiation : from hypotheses to models</i> , TREE , doi:10.1016/j.tree.2020.07.013 |
| 2020 | Y. Wang, B. Shipley, D. Lauer, R. Pineau , and J. McGuire, <i>Plant biomes demonstrate that landscape resilience today is the lowest it has been since end-Pleistocene megafaunal extinctions</i> , Global Change Biology , doi:10.1111/gcb.15299 |
| 2019 | R. Pineau , S. Hanson, J. Lyles and C. Quave, <i>Growth inhibitory activity of Callicarpa americana leaf extracts against Cutibacterium acnes</i> , Frontiers in pharmacology , doi:10.3389/fphar.2019.01206 |
| 2018 | M. Khan, H. Tang, J. Lyles, R. Pineau , Z. Mashwani and C. Quave, <i>Antibacterial properties of medicinal plants from Pakistan against multidrug-resistant ESKAPE pathogens</i> , Frontiers in pharmacology , doi:10.3389/fphar.2018.00815 |

📖 GENERAL PUBLIC PUBLICATIONS

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| 2024 | R. Pineau and W. Ratcliff, <i>Multicellularity drives ecological diversity in a long-term evolution experiment</i> , Nature Ecology and Evolution |
| 2017 | R. Pineau , <i>A first step into Plant Research</i> , UV4Plants Bulletin, doi : 10.19232/uv4pb.2017.1.15. |

🏆 AWARDS

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| 2024 | Best Postdoc Poster , MidWest Population Genetics meeting |
| 2023 | Best Paper in Ecology and Evolution , QBioS graduate program, Georgia Institute of Technology |
| 2023 | C-PIES Summer Research Experience Award , Center for Promoting Inclusion and Equity in the Sciences, Georgia Institute of Technology |
| 2023 | Travel Award , Georgia Institute of Technology |
| 2022 | Rosemary Grant Advanced Award , Society for the Study of Evolution |
| 2021 | Distinguished Paper in Ecology and Evolution , QBioS graduate program, Georgia Institute of Technology |
| 2019-2021 | PEO International Peace Scholarship |
| 2013-2016 | Merit Scholarship , France |

CONFERENCES

August 2024	Poster, MidWest Population Genetics, Bloomington, USA
July 2024	Talk, Joint Evolution Meeting, Montreal, Canada
March 2024	Poster and Session Chair, Suddath Symposium, Atlanta, USA
January 2024	Talk, Microbial Ecology and Evolution Hubs, Virtual
September 2023	Talk, Center for Microbial Dynamics and Infection, Atlanta, USA
June 2022	Poster, Evolutionary Dynamics and Processes, Plön, Germany
April 2022	Talk, AbSciCon, Virtual
March 2022	Talk, Center for Microbial Dynamics and Infection, Atlanta, USA

RESEARCH EXPERIENCE

July 2024 - today	Postdoctoral researcher, UCHICAGO, Advisor : Julia Kreiner Evolutionary history and genetic adaptation of common waterhemp (<i>Amaranthus spp.</i>) to agriculture and climate change Genomics Population genetics Grant writing Bioinformatics Field work
Feb-May 2024	Postdoctoral researcher, UTAH STATE UNIVERSITY, Advisor : Zach Gompert Evolutionary history and adaptation of feral and natural populations of alfalfa Genomics Population genetics
2018-2023	Research Assistantship, GEORGIA INSTITUTE OF TECHNOLOGY, Advisor : William Ratcliff <ul style="list-style-type: none">➢ Reconstructing the evolutionary history of the Pando clone using genetic data.➢ Explained the evolution and maintenance of coexistence in a long-term evolution experiment.➢ Described the evolution of a highly convergent multicellular topology in yeast Experimental evolution Genomics General wet lab Microscopy Image analysis Modeling Field work Grant writing
Fall 2017- Summer 2018	Research internship in Microbiology and Phytochemistry, EMORY UNIVERSITY, Advisor : Cassandra Quave Anti-acne bioactivity and chemical characterization of <i>Callicarpa americana</i> MIC assays Herbarium Plant chemical extractions
March 2017- July 2017	Research internship in Plant Molecular Biology, UNIVERSITY OF BRITISH COLUMBIA, Advisor : Yuelin Zhang Characterization of signaling pathways activated downstream pathogen infection in <i>A. thaliana</i> Arabidopsis thaliana Western blot CRISPR-Cas9
June 2017- Sept. 2016	Research internship in Plant Physiology, INRA SOPHIA-ANTIPOLIS, Advisor : Ludovic Mailleret Impact of photovoltaic panel shade on tomato plant growth in greenhouses Field work Data analysis

TEACHING AND MENTORING

2018-2023	Student mentor, GEORGIA INSTITUTE OF TECHNOLOGY, Mentored 1 high school, 3 undergraduate and 1 masters students.
Fall 2018-2019 Spring 2020	Teaching Assistant, GEORGIA INSTITUTE OF TECHNOLOGY, <ul style="list-style-type: none">➢ Recitation teaching assistant, Biology 1510➢ Lab teaching assistant, Biology 1510
2017-2018	Student mentor, EMORY UNIVERSITY, Mentored 2 undergraduate students.

Dec 2023	DEI micro aggression in the workplace training (organizer)
2020-2023	Georgia Tech Zero Waste Ambassador (volunteer)
2021	Atlanta Sustainability Ambassador Program (volunteer)
2018	Emory Zero Waste Ambassador (volunteer)
2018	Emory Sustainable Labs Program (employee)

REFERENCES

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