# ZOE MEZIERE

EVOLUTIONARY BIOLOGY - MOLECULAR ECOLOGY - CONSERVATION GENOMICS

## EXPERTISE AND INTERESTS

I am interested in understanding the genetic diversity and evolutionary history of natural populations, and how they shape adaptive responses to environmental change. My research combines genomic data, spatial, environmental and phenotypic information to explore evolutionary processes across biological, spatial and temporal scales.


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## BIOINFORMATICS

- Programing (R, Bash, Python, HPC clusters)
- Variant calling (GATK, bcftools)
- Read processing (Trimmomatic, BWA, SAMtools, Picard)
- Population genomics (PLINK, VCFtools, ADMIXTURE, lostruct)
- Demographic inference (dadi, Treemix)

## LABORATORY SKILLS

- DNA and RNA extraction
- GBS library preparation
- PCR and qPCR
- Electrophoresis
- Microscopy

## FIELD WORK SKILLS

- International driving license
- Recreational boating license
- PADI divemaster, nitrox
- PSC1, EFR, HLTAID009, HLTAID010, HLTAID011, HLTAID015
- Extensive experience of long scientific expeditions and remote living

## LANGUAGES

- English: fluent
- French: mother tongue
- Spanish: conversational

## EDUCATION

### 2021-2025: PhD in Population Genomics

The University of Queensland

**Thesis**: Genetic diversity, connectivity and adaptation in Great Barrier Reef corals. **Supervisors**: Prof. Cynthia Rigions, Dr. Iva Popovic, A/Prof. Cheong Xin Chan.

### 2017-2019: MSc in Evolutionary Biology

Uppsala University and Ludwig Maximilian University

**Coursework**: Evolutionary and processes, Basic and advanced evolutionary genomics.

**Thesis 1**: Restoration ecology at the borders of the Serengeti National Park: spatial and temporal comparison of herbaceous vegetation and remote sensing land mapping. **Supervisor**: Prof. Han Olff.

**Thesis 2**: Genomic and transcriptomic insights from cultivated JS1 bacteria from deep Atlantic sediments. **Supervisor**: Prof. William Orsi.

### 2014-2017: BSc in Biology and Mathematics

University Pierre and Marie Curie at Roscoff Marine Station

**Coursework**: Evolutionary biology, Molecular genetics, Ecology, Numerical analysis, Algebra, Biostatistics, Programming.

## TUTORING EXPERIENCE

**2025** UQ BIOL3000 Conservation
**2025** UQ CONS7024 Marine Conservation
**2024** UQ BIOL3215 Coral Reef Ecology and Conservation
**2023-2025** UQ MARS1001 Living Oceans
**2023** UQ International Programs field trip
**2022** UQ BIOL3209 Biodiversity and Systematics
**2021** UQ BIOL1020 Genes, Cells and Evolution

## CONFERENCES ATTENDED

**2025** Australasian Evolution Society conference (talk)
**2025** Gordon Research Evolutionary and Ecological Genomics (poster)
**2025** International Congress for Conservation Biology (poster)
**2024** Australian Coral Reef Society (talk)
**2023** UQ Postgrad vonference (talk)
**2022** Australian Coral Reef Society conference (talk)
**2022** UQ Postgrad conference (talk)

**2022** Australian Marine Sciences Association conference (attendance)
**2019** Meeting of the African Bio Services Consortium (talk)
**2018** 5th Young Reef Scientists meeting (attendance)
**2018** Horizontal Gene Transfer and LUCA conference (attendance)
**2018** Joint congress in Evolutionary Biology (attendance)
**2017** European Society of Evolutionary Biology conference (attendance)

## GRANTS AND AWARDS RECEIVED

**2025** Best student publication award at the 2025 International Congress for Conservation Biology
**2024** First place at the School of the Environment Research Showcase (AUD$500)
**2024** Best photograph award at the 2024 Australian Coral Reef Symposium
**2021-2025** University of Queensland Training Stipend (AUD$28,597 per annum)
**2019** Groningen University Fund (€500) and Marco Polo Scholarship (€500)
**2019** PROSA Stipendium (€1900)
**2018** Sohan Travel Award (€200)
**2017** Bourse de mobilité Sorbonne Universitées (€500)

## VOLUNTEERING EXPERIENCE

**2021** Vice president of the UQ Biology Postgraduate Club
**2020** Visiting student at the Reef Ecology Lab at KAUST University
**2020** Volunteer for Marine Conservation Philippines
**2019** Volunteer for Sea Shepherd Global
**2024** Chair member for the Association of Young Researchers at Roscoff Marine Station

## TRAININGS AND WORKSHOPS

**2024** Outlier Analyses Workshop (Australian BioCommons)
**2024** Advanced Spatial Statistics (Physalia)
**2022** Summer School on Software and Statistical Methods for Population Genomics
**2022** Coral Identification Workshop by Russel Kelley
**2018** MANEA - Coral Reef Biodiversity (CRIOBE)
**2017** Training in Biology and Philosophy

## PUBLICATIONS

**Meziere, Z.**, Prata, K., Lechene, M., Ferrari, R., Popovic, I., & Riginos, C. (2025). Connectivity differs by orders of magnitude among co-distributed corals, affecting spatial scales of eco-evolutionary processes. Science Advances, 11(27), eadt2066. https://doi.org/10.1126/sciadv.adt2066

Riginos, C., Popovic, I., **Meziere, Z.**, Garcia, V., Byrne, I., Howitt, S., Ishida, H., Bairos-Novak, K., Humanes, A., Scharfenstein, H., Richards, T., Briggs, E., Clark, V., Lei, C., Khan, M., & Prata, K. (2024). Cryptic species and hybridisation in corals: Challenges and opportunities for conservation and restoration. https://doi.org/10.32942/X2502X

**Meziere, Z.**, Popovic, I., Prata, K., Ryan, I., Pandolfi, J., & Riginos, C. (2024). Exploring coral speciation: Multiple sympatric Stylophora pistillata taxa along a divergence continuum on the Great Barrier Reef. Evolutionary Applications, 17(1), e13644. https://doi.org/10.1111/eva.13644

**Meziere, Z.**, Rich, W. A., Carvalho, S., Benzoni, F., Morán, X. A. G., & Berumen, M. L. (2021). Stylophora under stress: A review of research trends and impacts of stressors on a model coral species. Science of The Total Environment, 151639. https://doi.org/10.1016/j.scitotenv.2021.151639