

# Fabio Mogni

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## Skills Summary

**Professional** Research | Data analysis | Project management | Critical thinking | Decision-making | Good oral and written communication | Data collection and manipulation | Plant Identification | Creativity | Stakeholder engagement

**Software** R | ArcGIS | QGIS | Office Suite | Zotero | GitHub | HTML

**Teaching** Course design | Lecturing | Leadership | Marking & Assessment | Supervision & Mentoring | Team management

**Language** English | Italian

## Academic Qualifications

**2022** Ph.D. in Ecology and Biogeography, Victoria University of Wellington, Wellington

Thesis: "*The island biogeography of plants and humans*" ([see thesis](#))

**2015** M.S. in Science of Nature, University of Milan, Milan

Thesis: "*Attribution of the CSR strategies to a sample of Italian flora*" ([see abstract](#))

**2012** B.S. in Natural Sciences, University of Milan, Milan

Thesis: "*The dry meadows of middle and high Bergamo's plains: dynamic and evolutionary aspects*" ([see abstract](#))

## Professional Positions

**2024 –** Postdoctoral Scholar, University of Vienna, Vienna

Biodiversity modelling in a global multi-stakeholder project | Co-developed internal lab wiki for research documentation | International conference presentations and grant writing | Website management

**2024** Lecturer, University of British Columbia, Kelowna

Courses: *Conservation Biology*

**2023** Guest Lecturer, University of British Columbia, Kelowna

Teaching Invasion Ecology to students from a variety of backgrounds. I delivered an overview of the topic, tailored to each distinct class.

Courses: *Introduction to Environmental Humanities, Creating Positive Learning Environments for Inclusive Education*

**2022 – 2024** Postdoctoral Scholar, University of British Columbia, Kelowna

Systematic review on invasive species impacts for BC Ministry of Forests | Led lab meetings | Student mentorship | Stakeholder engagement

**2022** Senior Tutor, Victoria University of Wellington, Wellington

Supporting staff, students and lectures across multiple courses.

**2021** Lecturer, Victoria University of Wellington

Courses: *New Zealand flora and fauna, Island Ecology & Evolution*

**2021 – 2022** Student Advisor, Victoria University of Wellington, Wellington

Student support and counselling (Faculty of Science, Dean's office).

**2019** Guest Lecturer, Victoria University of Wellington, Wellington

Courses: *Landscape architecture sites and systems*

**2018 – 2022** Teaching Assistant, Victoria University of Wellington, Wellington

Courses: *Plant biology, Plants and algae: function and diversity, New Zealand flora and fauna, Ecology and Environment, Island ecology and evolution*

## Projects

- *Plant Invasions on Islands Offshore Northern New Zealand* - Funded by the University of Wellington, this project explores relationships between non-native species and island characteristics and the interplay with plant traits and life histories.
- *BioMonI - Biodiversity monitoring of island ecosystems* - Biodiversa+ funded collaborative project aimed to develop global long-term monitoring of island biodiversity. Our working group focuses on identifying future scenarios of island conservation using the Nature Futures Framework.
- *Systematic mapping of the individual and cumulative impacts of invasive plant species in riparian ecosystems of British Columbia, Canada* - Funded by British Columbia's Ministry of Forests, this project is aimed at systematically compiling and mapping the evidence of the individual and cumulative impacts of plant species invasives to foreshore and riparian ecosystems in British Columbia, Canada.

## Publications

- *Published, accepted and in review*

**Mologni, F.**, Bellingham, P. J., Tjørve, E., Cameron, E. K., Wright, A. E., & Burns, K. C. (2021). *Similar yet distinct distributional patterns characterize native and exotic plant species richness across northern New Zealand islands*. *Journal of Biogeography*, 48(7), 1731-1745. doi:[10.1111/jbi.14110](https://doi.org/10.1111/jbi.14110)

**Mologni, F.**, Bellingham, P. J., Cameron, E. K., Dinh, K., Wright, A. E., & Burns, K. C. (2022). *Functional traits explain species richness and island occupancy of non-native plants on northern New Zealand islands*. *Biological Invasions*. 24, 2135–2154. doi: [10.1007/s10530-022-02762-1](https://doi.org/10.1007/s10530-022-02762-1)

**Mologni, F.** (2022). *Different levels of disturbance influence the distributional patterns of native but not exotic species on New Zealand small islands*. *Frontiers of Biogeography*, 14(2): 1-15. doi:[10.21425/F5FBG54598](https://doi.org/10.21425/F5FBG54598)

**Mologni, F.**, Burns, K. C. (2023). *The island biogeography of human population size*. *Proceedings of the Royal Society B*, 290: 20222084. doi: [10.1098/rspb.2022.2084](https://doi.org/10.1098/rspb.2022.2084)

**Mologni, F.**, Moffat, C.E. & Pither, J. (2023). *Collating existing evidence on cumulative impacts of invasive plant species in riparian ecosystems of British Columbia, Canada: a systematic map protocol*. *Environmental Evidence* 12, 31. [10.1186/s13750-023-00320-3](https://doi.org/10.1186/s13750-023-00320-3)

Ciarle, R., Burns, K. C. & **Mologni, F.** (2024). *The loss (and gain) of defensive adaptations in island plants and animals: A comparative review*. In X. Moreira & L. Abdala-Roberts (Ed.). *Ecology and evolution of plant-herbivore interactions on islands*. Springer. [10.1007/978-3-031-47814-7\\_5](https://doi.org/10.1007/978-3-031-47814-7_5)

**Mologni, F.**, Bellingham, E., Cameron, E. K., Wright, A. E. (2024). *Time of naturalization is key to explaining non-native plant invasions on islands*. *Journal of Biogeography*, 51 (8): 1340-1350. <https://doi.org/10.1111/jbi.14825>

**Mologni, F.** (2024). *The process of island abandonment by humans in recent European history*. *Frontiers of Biogeography*, 17: e132245. <http://doi.org/10.21425/fob.17.132245>

Ciarle, R., Burns, K. C. & **Mologni, F.** (2025). *Flower size evolution in the Southwest Pacific*. *Annals of Botany*, <https://doi.org/10.1093/aob/mcaf005>

**Mologni, F.**, Pither, J. (In Review, [Preprint](#)). *Assessing Transparency and Reproducibility in Invasion Science*. *Neobiota*, <https://doi.org/10.32942/X29928>

**Mologni, F.**, Bellingham, E., Cameron, E. K., Wang, Y. & Wright (In Review, [Preprint](#)). *Integrating Phylogeny and Functional Traits into Evaluations of Nestedness in Island Floras*. *Journal of Vegetation Science* (Invited), <https://doi.org/10.32942/X2CK7J>

- *In preparation*

**Mologni, F.** & Walter, R. (Editing). *The island biogeography of humans changes through time: New Zealand as a case study*.

**Mologni, F.**, Essl, F., Lenzner, B. (In prep). *Meeting International Biodiversity Targets on Islands: Current Status and Challenges*.

Donald, M., **Mologni, F.**, Garrard, G. (In prep). *Examining the language of invasion ecology: Are invasives always invading?*

**Mologni, F.**, Moffat, C.E. & Pither, J. (In prep). *Collating existing evidence on cumulative impacts of invasive plant species in riparian ecosystems of British Columbia, Canada: a systematic map*

- *Registrations and Reports*

Camperio, G., Wildpret, W., Zemp, C., Borges, P. A. V., de Nascimento, L., Gabriel, R., Lenzner, B., **Mologni, F.**, Patiño, J., Suter, S., Kreft, H., Guerrero-Ramírez, N. (2025). *Which ongoing and past biodiversity monitoring schemes exist on islands worldwide?: a Systematic Map Protocol*. PROCEED-25-00332, **PROCEED**, <https://doi.org/10.57808/proceed.2025.11>

**Mologni, F.**, Moffat, C., Pither, J. (2023). *Collating existing evidence on cumulative impacts of invasive plant species in riparian ecosystems of British Columbia, Canada: a Systematic Map Protocol*. PROCEED-23-00170, **PROCEED**, <https://doi.org/10.57808/proceed.2023.28>

**Mologni, F.** (2015). *Study on the characteristics of the Malpaga-Basella Reserve with a focus on the exotic flora*. University of Milan, Milan. [10.13140/RG.2.2.30864.53764/1](https://doi.org/10.13140/RG.2.2.30864.53764/1)

## Grants & Awards

**2024** Research Support Grant (500 Euro, University of Vienna)

**2024** Open Access publishing funding for 1,850 Euro (Two scientific articles, Role: Postdoctoral Associate)

**2023 - 2024** An additional funding of 96,711 Euro (141,317 CAD) from British Columbia's Ministry of Forests for the project "*Cumulative impacts of invasive plant species in British Columbia's foreshore and riparian ecosystems*" (Role: Postdoctoral Associate, Project ongoing) - *Non-competitive*

**2023** Postdoc Research Day Best Talk (Postdoctoral Association UBC Okanagan)

**2022** Wellington International Leadership Award (Victoria University of Wellington)

**2021** School of Biological Sciences Best Publication (Victoria University of Wellington)

**2021** Wellington International Student Excellence Award (WellingtonNZ - Wellington Economic Development Agency)

**2021** Submission Scholarship (5,518 Euro/10,000 NZD, Victoria University of Wellington)

- 2019 Student Award (552 Euro/1,000 NZD, Centre for Biodiversity and Restoration Ecology)
- 2018 Student Grant (331 Euro/600 NZD, Wellington Botanical Society)
- 2018 Doctoral Research Scholarship (38,902 Euro/70,500 NZD, Victoria University of Wellington)

## Conferences & Presentations

- 2025 Kelowna (CAN, Online), 2025 Invasive Species Research Conference. *Collating existing evidence on cumulative impacts of invasive plant species in riparian ecosystems of British Columbia, Canada.* **Mologni F.**, Moffat C., Pither J.
- 2025 Budapest (HUN), First Conference on Invasion Biology and One Biosecurity. *Time since first naturalization is key to explaining non-native plant invasions on islands.* **Mologni F.**, Bellingham E., Cameron E. K., Wright A. E.
- 2024 Vienna (AUS), Divisions of BioInvasions, global change & macroecology and of Biodiversity dynamics and conservation. *Islands, Invasions, and humans.* **Mologni F.**
- 2024 Lisbon (POR), Neobiota2024 - 13th International Conference on Biological Invasions. *Collating existing evidence on cumulative impacts of invasive plant species in riparian ecosystems of British Columbia, Canada,* **Mologni F.**, Moffat C., Pither J.
- 2024 Kelowna (CAN), BRAES Symposium. *Collating existing evidence on cumulative impacts of invasive plant species in riparian ecosystems of British Columbia,* **Mologni F.**, Moffat C., Pither J.
- 2024 Vancouver (CAN), ISCBC Forum 2024 (**Invited speaker**). *Collating existing evidence on cumulative impacts of invasive plant species in riparian ecosystems of British Columbia,* **Mologni F.**, Moffat C., Pither J.
- 2023 Kelowna (CAN), UBC Okanagan Postdoctoral Research Day. *Cumulative impacts of invasive plant species in British Columbia's riparian ecosystems,* **Mologni F.**, Moffat C., Pither J.
- 2022 Vancouver (CAN), 10th Biennial Conference of the International Biogeography Society. *The island biogeography of humans,* **Mologni F.**, Burns K.C.
- 2021 Wellington (NZ), Ecology & Evolution Seminar. *The island biogeography of humans,* **Mologni F.**, Burns K.C.
- 2020 Wellington (NZ), CBRE & CfB Joint Symposium. *Biogeographic dynamics of human populations across New Zealand offshore islands,* **Mologni F.**, Walter R., Burns K.C.
- 2019 Wellington (NZ), Ecology & Evolution Seminar. *Hidden invasion dynamics of exotic plant species on New Zealand offshore islands,* **Mologni F.**, Bellingham P.J., Cameron E.K., Wright, A.E., Burns K.C.
- 2019 Wellington (NZ), Wellington Botanical Society Annual Meeting. *Hidden invasion dynamics of exotic plant species on New Zealand offshore islands,* **Mologni F.**, Bellingham P.J., Cameron E.K., Wright, A.E., Burns K.C.

**2018** Wellington (NZ), New Zealand Ecological Society. *Differences in the distribution of native and exotic plant species on New Zealand's offshore islands*, **Mologni F.**, Bellingham P.J., Cameron E.K., Wright, A.E., Burns K.C.

## **Mentorship**

**2023 – (Postdoc)** I am co-supervising a PhD. I have also co-supervised 2 undergraduate students and a research assistant.

**2018 – 2022 (PhD)** I have supervised 25 undergraduate students in developing a research project, from formulating a hypothesis to presenting their results. As a student advisor, I advised and counselled many undergraduate students.

**2014 – 2015 (MS)** I have trained two undergraduate students in laboratory and field data collection protocols.

## **Service to the profession, Professional memberships & Certifications**

**Peer-review** Neobiota, Acta Oecologica, Journal of Biogeography, Journal of Systematics and Evolution, Evolutionary Human Sciences, Current Zoology, Journal of Vegetation Science, Global Ecology and Conservation, Perspectives in Plant Ecology, Evolution and Systematics, Biodiversity and Conservation, International Biogeography Society - 11th Biennial Conference, Prague 2024

**Selected reviewer** for the Global Environment Outlook 7 (United Nations Environmental Programme)

**Memberships** Environment and Climate Research Hub (ECH), International Biogeography Society, Invasive Species Council of British Columbia, New Zealand Ecological Society

**Certifications** Wilderness First Aid, Canadian Outdoor Medical, Kelowna (2023)

## **Volunteering activities**

**2023 – 2024** Executive board member, Postdoctoral Association UBC Okanagan, University of British Columbia, Kelowna

Developed organised and structured support for postdoctoral scholars and planned professional events in collaboration with stakeholders across the institution. Co-developed a non-mandatory checklist designed to enhance relationships between postdoctoral scholars and supervisors.

**2021 – 2022** Botanist, Museum of New Zealand Te Papa Tongarewa, Wellington

Identification and databasing of [plant specimens](#) from the Bakers & Thompson collection (1790-1830), focusing on the genus *Solanum*, Morelloid clade (black nightshades).

**2018 – 2020** Field Ecologist, Polhill Protectors, Wellington

Mammals and weed control in a periurban area. Leading volunteers during weeding operations.

**2010 – 2015**      Field Ecologist, University of Milan, Milan

Plant identification, floristic surveys, fossil extraction and management, bird banding, scientific communication.

## References

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