Curriculum Vitae
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Fields and areas of expertise
Island biology & biogeography; plant ecology & botany; tropical dry, wet and cloud forests & wetland ecosystems; conservation science & ecological restoration; evolutionary biology & genetics; biological invasions & weed ecology; palaeo-ecology & species extinction; native & alien flora and fauna of French Polynesia (Austral, Gambier, Marquesas, Society, Tuamotu), Clipperton atoll, Rapa Nui (Easter Island) & Motu Motiro Hiva (Salas y Gómez), Cook Islands (Southeastern Polynesia), Wallis et Futuna (Western Polynesia); study and management of invasive alien plants in the Pacific Ocean (including Fiji, Hawai'i, Samoa, New Caledonia) & the Western Indian Ocean (La Réunion, Mauritius, Mayotte); impacts of climate change on biodiversity; human-nature interactions; traditional ecological knowledge & bio-cultural values.

Professional preparation
Qualified as Lecturer ("*Maître de Conférence*") in Ecology and Population Biology, France, **2009**.
University of Hawaii at Manoa, USA, Botany, Postdoctoral Research Scholar, **1996-1997**.
University of Montpellier, France, Population Biology and Ecology, **Ph.D.**, **1994**.
University of Montpellier, France, Evolutionary Biology and Ecology, **M.S.**, **1991**.
University of Nancy, France, Organism and Population Biology, **B.S.**, **1990**.

Appointments
Head of the Research Department/Délégation à la Recherche ("*Délégué à la Recherche*"), Government of French Polynesia, Tahiti, **2014-2020**.
Senior Research Scientist ("*Chargé de Recherche 1ère classe*"), Délégation à la Recherche, Government of French Polynesia, Tahiti, **2008-2014**; **2020-on going**.
Research Scientist ("*Chargé de Recherche 2ème classe*"), Délégation à la Recherche, Government of French Polynesia, affiliated at the Institut Louis Malardé (Biomedical Research Institute), Tahiti, **2002-2008**.
Scientific Director, Conservatoire Botanique National de Mascarin, La Réunion Island, France, **2001-2002**.
Research Management Officer, Délégation à la Recherche, Government of French Polynesia, affiliated at the Université de la Polynésie française (University of French Polynesia), Tahiti, **1998-2001**.
Research Assistant ("*Volontaire à l'Aide Technique*"), Délégation à l'Environnement et à la Recherche, Government of French Polynesia, affiliated at the Centre ORSTOM (IRD), Tahiti, **Dec. 1994-1996**.

Publications

Scientific papers in refeered journals with Impact Factor
Seely T., Meyer J.-Y. & Battle J. **in prep**. Terrestrial LiDAR reveals invasive tree *Miconia calvescens* alters forest structure and regeneration but not diversity in hybrid rainforests of the island of Moorea, French Polynesia. *Biotropica.*
Tuiwawa S.H., Qarasaumaki T., Meyer J.-Y, De Ramon N'Yeurt A., Ah-Peng C. & Chomicki G. **submitted**. Fiji's cloud forest flora: A checklist of vascular plants, their distribution range and vulnerability to climate change. *Australian Journal of Botany*.
Meyer J.-Y, Tellier E., Pouteau R. & Drake D.R. **in revision**. Composition, structure, regeneration, and vulnerability of lowland rainforests in the tropical islands of Wallis-et-Futuna (Western Polynesia, South Pacific). *Pacific Conservation Biology*.

Peaple M., Skinner D.T., Inglis G.N., Joshi M., Langdon P., Matthews A. J., Osborn T.J., Scaife R., Meyer J.-Y. & Sear D. **2026**. Cooler and drier climate in the South-Central Pacific during the last glacial period. *Nature Communications Earth & Environment* 7: 408. https://www.nature.com/articles/s43247-026-03356-8

Pouteau R., Adrien E., Ah-Peng C., Albert S., Flores O., Laforgue B., Lavergne C., Meyer J.-Y., Regen A., Rojat M. & Roussel S. **2026**.Trait-dependent declines of threatened endemic trees following plant invasion on a tropical oceanic island. *Biological Conservation* 315: 311665. https://doi.org/10.1016/j.biocon.2025.111665

Gros L., Meyer J.-Y., Pouteau R. & Marmey P. **2025**. Taxonomical and geographic distributions of native angiosperms in the islands of French Polynesia (South Pacific): an analysis based on the Nadeaud botanical database. *Pacific Science* 79(2): 267-283. https://doi.org/10.2984/79.2.3

Meyer J.-Y., Fabre Barroso S., Mazoyer L., Jordan M., Fraisse J., Fourdrigniez M., Taputuarai R. & Pouteau R. **2025**. Vulnerability and resilience of rainforests to plant invasions in a tropical island of the South Pacific: a sixteen years survey. *Biodiversity and Conservation* 34(11): 3985-3999. https://doi.org/10.1007/s10531-025-03143-5

Weiss W., Brescia F., Baudat-Franceschi J., Withers T., Des Monstiers B., Ducatez S., Meyer J.-Y., Ghestemme T. & Vidal E. **2025**. Invasive rodent eradications in French Pacific islands: a critical analysis of past efforts. *Pacific Conservation Biology* 31(4). https://doi.org/10.1071/PC24101

Ghilardi M., Revelles J., Meyer J.-Y., Vacchi M., Mantavoni C., Lecchini D. & Delanghe, D. **2025**. Late Holocene landscape reconstruction of the lower 'Opunohu valley, Mo'orea island (South Pacific) and its geoarchaeological implications. *Journal of Archaeological Science: Reports* 63. https://doi.org/10.1016/j.jasrep.2025.105079

Fabre Barroso S., Flores O., Palmas P., Pouteau R. & Meyer J.-Y. **2023**. A comparative study of the floristic diversity and structure of relictual littoral and swamp forests in the island of Tahiti (French Polynesia, South Pacific). *Pacific Science* 77(2-3): 233-251. https://doi.org/10.2984/77.2.7

Poncet R., Meyer J.-Y., Paradis A.-H., Leblond S. & Kervran L. **2023**. A new species of *Agonimia* (Ascomycota, Eurotiomycetes, Verrucariaceae) from Morane atoll (Tuāmotu-Gambier Islands, French Polynesia). *Plant and Fungal Systematics* 68(2): 388-394. https://doi.org/10.35535/pfsyst-2023-0023

Heymans L., Meyer J.-Y., Ah-Peng C., Ethève Q., Flores O., Lavergne C., Mallet B., Parlevliet H., Strasberg D. & Pouteau R. **2023**. Do native and alien species differ in their ecological strategies? A test with woody plants in tropical rainforests on Réunion Island (Mascarene archipelago, Indian Ocean). *Plants* 12, 3990. https://www.mdpi.com/2223-7747/12/23/3990

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Clerissi C., Chaib S., Raviglione D., Espiau B. Bertrand C. & Meyer J.-Y. **2023**. Metabarcoding and metabolomics reveal the influence of the invasive alien tree *Miconia calvescens* on soil diversity in the tropical island of Moorea (French Polynesia). *Microorganisms* 11(4), 832. https://doi.org/10.3390/microorganisms11040832

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biodiversity of islands is in peril. *Global Ecology and Conservation* 31 https://doi.org/10.1016/j.gecco.2021.e01847

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Larrue S., Daehler C., Meyer J.-Y., Pouteau R. & Voldoire O. **2016**. Elevational distribution and photosynthetic characteristics of the invasive tree *Spathodea campanulata* on the island of Tahiti (South Pacific Ocean). *NeoBiota* 30: 127-149. https://doi.org/10.3897/neobiota.30.8201

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Justine J.-L., Winsor L., Barrière P., Fanai C., Gey D., Wee Kien Han A., La Quay-Velázquez G., Yi-Hann Lee B.P., Lefevre J.-M**.,** Meyer J.-Y., Philippart D., Robinson D.G., Thévenot J. & Tsatsi F. **2015**. The invasive land planarian *Platydemus manokwari* (Platyhelminthes, Geoplanidae): record from six new localities, including the first in the USA. *PeerJ* 3:e1037. https://doi.org/10.7717/peerj.1037

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Meyer J.-Y. **1994**. Histoire de l'introduction et de l'invasion de *Miconia calvescens* à Tahiti. *Bulletin de la Société des Études Océaniennes* 263-264: 106-119.

Synergistic Activities

- Guest lecturer for the University of California, Berkeley field-courses in "Tropical Island Biology and Geomorphology" taught at the R. Gump South Pacific Research Station, Moorea (**2002-on going**) and "Island Sustainability" at the Tetiaroa Society Eco-station, Tetiaroa (**2022-on going**).
- Coordinator of a course in "Conservation biology and biological invasions on islands" for a Master of Science Degree (Master 2 "Biodiversité, Ecologie, Evolution", parcours "Environnement Insulaire Océanien") of the University of French Polynesia: member of the students selection committee, course lecturer, reviewer of student dissertations and jury member for their final oral exam (**2013-on going**).
- Scientific supervisor or co-supervisor advising, training and mentoring French and foreign undergraduate/graduate/doctoral/post-doctoral students (committee or jury member for 14 doctoral thesis/PhD candidates, supervisor of 25 graduate/MSc students) in terrestrial ecology, tropical botany, island biogeography, invasion biology, species conservation and habitat restoration.
- Botanical expert, involved in the inventory, knowledge and conservation of the native and endemic flora of French Polynesia and Wallis et Futuna, as well as identifying and managing current and potential invasive alien plant species;
- Scientific adviser for ecological restoration projects (wetlands, coastal, semi-dry, mesic, and wet forests) conducted by local NGOs in French Polynesia (including Tahiti, Moorea, Tetiaroa atoll in the Society, Rapa in the Austral, Nuku Hiva in the Marquesas, Hao atoll in the Tuamotu).
- Collaborator of botanist Jacques Florence (IRD, Muséum national d'Histoire naturelle, Paris) on the Flora of French Polynesia and the "Nadeaud botanical database" (2007, updated in 2019 http://nadeaud.ilm.pf), and botanists David H. Lorence (National Tropical Botanical Garden, Hawaii) and Warren W. Wagner (Smithsonian Institution, Washington) for the Vascular Flora of the Marquesas Islands database (http://botany.si.edu/pacificislandbiodiversity/marquesasflora/).
- Referee for the peer-reviewed scientific journals (arranged by Impact Factor 2024) "Global Change Biology", "New Phytologist", "Journal of Environmental Management", "Landscape and Urban Planning", "Conservation Letters", "Conservation Biology", "Journal of Applied Ecology", "Biological Conservation", "Diversity and Distributions", "Ecology", "Plants", "NeoBiota", "Forest Ecology and Management", "Biological Control", "Annals of Botany", "Perspectives in Plant Ecology, Evolution and Systematics", "Journal of Biogeography", "Insect Conservation and Diversity", "Quaternary Science Reviews", "Biodiversity and Conservation", "PLOS One", "Restoration Ecology", "Biological Invasions", "South African Journal of Botany", "Ecology and Evolution", "PeerJ", "Oryx. The International Journal of Conservation", "BioControl", "Journal for Nature Conservation", "Weed Research", "Diversity", "Journal of the Royal Society if New Zealand", "Biotropica", "Ecological Research", "Tropical Conservation Science", "Austral Ecology", "Pacific Conservation Biology", "Bulletin of Marine Science", "Journal of Tropical Ecology", "Acta Oecologica", "Journal of Ornithology", "Invasive Plant Species and Management", "Biodiversity Data Journal", "Australian Journal of Botany", "Zoosystema", "Pacific Science", "Bois et Forêts des Tropiques", "Nordic Journal of Botany", "Journal of the Polynesian Society", "Adansonia", "Naturae", "VertigO-La Revue électronique en Sciences de l'Environnement", "Atoll Research Bulletin", "Phytologia", "Acta Botanica Hungarica", "Revue d'Ecologie Terre et Vie".
- Expert consultant on terrestrial biodiversity and biological invasion initiatives across the Pacific: Global Invasive Species Program (GISP) and Database (GISD), IUCN/SCC Invasive Species Specialist Group (ISSG), CABI Invasive Species Compendium, Pacific-Asia Biodiversity Transect (PABITRA), South Pacific Regional Environmental Program (SPREP), Pacific Invasives Learning Network (PILN), Botanic Gardens Conservation International (BCGI), Global Peatlands Initiative (UNEP), Initiative française pour les Récifs Coralliens (IFRECOR).
- Scientific collaborations with: University of California at Berkeley (USA), Smithsonian Institution of Washington (USA), B. Pauahi Bishop Museum of Honolulu (Hawai'i, USA), University of Hawai'i at Manoa (Hawai'i, USA), Biosecurity Queensland (Australia), Australian National University, Canberra (Australia), University of Auckland (New Zealand), University of Canterbury (New Zealand), Te Papa Herbarium, Wellington (New Zealand), University of the South Pacific, Suva (Fiji), CONAF-Rapa Nui National Park (Chile), IRD Nouméa (New Caledonia, France), Service Territorial de l'Environnement, Wallis et Futuna (France), Université de La Réunion (France), Parc National de La Réunion (France),

Université des Antilles (France), Parc National de la Guadeloupe (France), Université de la Polynésie française (French Polynesia), Centre de Recherches Insulaires et Observatoire de l'Environnement (CRIOBE)-EPHE-CNRS-Université de Perpignan (French Polynesia & France), Muséum national d'Histoire naturelle, Paris (France), IRD Montpellier (France), CEFE-CNRS, Montpellier (France), Université de Clermont Auvergne (France), CEREGE-CNRS, Aix-en-Provence (France), Université de Lorraine (France), Oxford University (UK), University of Southampton (UK).

- Reviewer for research and conservation projects submitted to the French "Fondation pour la Recherche sur la Biodiversité (FRB)", the "Agence Nationale de la Recherche (ANR)", the "Stratégie Nationale sur la Biodiversité (SNB)", and to the "The Netherlands Organisation for Scientific Research (NWO)".
- Member of the IUCN/Species Specialist Commission (SSC) "Invasive Species Specialist Group" (ISSG) (**1998-on going**).
- Member of the Scientific committee of the "Conservatoire Botanique National de Mascarin", La Réunion **(2002-on going)**.
- French Polynesia coordinator of the "Initiative sur les Espèces Exotiques Envahissantes en Outre-Mer" of the French IUCN Committee **(2006-2020)**; member of the "Réseau Espèces Exotiques Envahissantes Outre-Mer" **(2020-on going)**.
- Research Associate in Botany, National Tropical Botanical Garden, Hawaii, USA **(2008-on going)**.
- Executive committee member for the "Moorea Biocode Project" (University of California at Berkeley, Smithsonian Institution of Washington, USA, and CRIOBE-CNRS-EPHE-Université de Perpignan, France), and team co-leader for the inventory of the native and alien vascular flora **(2008-2012)**.
- Member of the Technical Advisory Committee for the "Polynesia-Micronesia Critical Ecosystems Partnership Fund" (CEPF) **(2008-2013)**.
- Board Member of the "Society for Conservation Biology, Oceania section" **(2011-2014**).
- Member of the Scientific committee of the "Grand Observatoire de l'Environnement et de la Biodiversité du Pacifique Sud" (GOPS) **(2010-2014)**; member of the GOPS Executive committee **(2015-2017)**.
- Council Member of the "Pacific Science Association" **(2013)**.
- Member of the "Groupement de Recherche CNRS 3647 Invasions Biologiques" (**2014-on going)**.
- Member of the "Tetiaroa Society Scientific Advisory Board (SAB)" **(2014-on going)**; co-president of the SAB **(2025-on going)**.
- Member of the Pacific committee of the "Biodiversity and Ecosystem Services in Territories of European Overseas Projects" (BEST 2.0 and BEST 2.0+) as an independent expert in charge of reviewing and assessing projects in French Polynesia, New Caledonia, Wallis et Futuna and Pitcairn Islands **(2015-2021)**.
- Member of the Editorial committee (Associate Editor) of the journal "New Zealand Journal of Botany" **(2016-2018)**.
- Board member of the "Society for Island Biology" **(2016-2023)**.
- Expert nominated by France to a working group on invasive alien species for the "Intergovernmental Platform on Biodiversity and Ecosystem Services" (IPBES) **(2019)**.
- External member of the Scientific committee of the Parc National de La Réunion **(2020-2025)**.
- Member of the "Conseil Scientifique Territorial du Patrimoine Naturel" (CSTPN) de Saint-Pierre et Miquelon **(2021-2026)**.
- Member of the "Pacific Islands Roundtable for Nature Conservation (PIRT) Species Working Group" **(2022-on going)**.
- Member of the Editorial committee of the journal "Bois et Forêts des Tropiques" **(2023-2025)**.
- Member of the "UMR 241 Santé et Services des Ecosystèmes Polynésiens (SECOPOL)" co-coordinating the "Equipe Terrestre Insulaire Chimiodiversité et Santé (ETICS) **(2024-on going)**.
- Member of the Scientific committee of the "Conservatoire Botanique National de Nouvelle-Calédonie" **(2024-on going)**.
- Member of the Scientific council of the "DiversitES" transdisciplinary (biological, cultural and linguistic) project conducted by the University of New Caledonia in partnership with CNRS et IRD **(2025-on going)**.
- Member of the Advisory board of the "Biodiversity and Monitoring in Island Ecosystems (BioMonI)" project (https://www.biomoni-islandplots.eu/team/) funded by the "European Biodiversity Partnership (Biodiversa+)" **(2026-on going)**.