

Curriculum Vitae

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Fields and areas of expertise

Island biology & biogeography; botany & plant ecology; tropical 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, Hawaii, 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 1^{ère} classe*”), Délégation à la Recherche, Government of French Polynesia, Tahiti, **2008-2014; 2020-on going**.

Research Scientist (“*Chargé de Recherche 2^{ème} 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 refereed journals with Impact Factor

Meyer J.-Y., Pouteau, R. Fabre Barroso S., Mazoyer L., Jordan M., Fraisse J. & Taputuarai R. **in prep.**

Vulnerability and resilience of rainforests to plant invasions in the tropical island of Moorea, French Polynesia (South Pacific): a sixteen years survey. *Journal of Vegetation Science*.

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*.

Buffington A., Kahn J., Dotte-Sarout E., Meyer J.-Y. & Escue C. **in revision**. Defining the scope of the anthropogenic niche: woodland communities over a 1000-year sequence in the Society Islands (French Polynesia). *Journal of Anthropological Archaeology*.

- 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.
- Poncet R., Meyer J.-Y., Paradis A.-H., Leblond, S. & Kervran, L. **2023**. A new species of *Agonomia* (Ascomycota, Eurotiomycetes, Verrucariaceae) from Morane atoll (Tuāmotu-Gambier Islands, French Polynesia). *Plant and Fungal Systematics* 68(2): 388-394.
- 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>
- Meyer J.-Y., Cotoras D. D., Lazo Hucke P. & Yancovic Pakarati S. **2023**. The peculiar flora of Motu Motiro Hiva (Salas y Gómez, Chile) and its similarities with other small remote uninhabited Eastern Pacific Islands. *Atoll Research Bulletin* 632. <https://doi.org/10.5479/si.24578737>
- Palmas P., Meyer J.-Y., Chailler E., De Méringo H., Vidal E., Gaertner J.-C., Bambridge R., Mooroa T., Hurahutia I., Teatiu G., Teatiu S. & Timau T. **2023**. Introduced rat assemblage affects feral cat threat on biodiversity in French Polynesian islands. *Wildlife Research*. <https://doi.org/10.1071/WR22052>
- Larrue S., Baray J.-L., Chadeyron J., Meyer J.-Y., Mazal L, Daehler C. & Fumanal B. **2023**. Modelling long-distance seed dispersal of the invasive tree *Spathodea campanulata* in the Society Islands. *Ecological Applications* e2839. <https://doi.org/10.1002/eap.2839>
- Clerissi C, Chaib S., Raviglione D., Espiau B. Bertrand C. & Meyer J.-Y. **2003**. 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>.
- Meyer J.-Y., Pouteau R. & Vincent F. **2022**. Assessing habitat suitability for the translocation of *Ochrosia tahitensis* (Apocynaceae), a critically endangered endemic plant from the island of Tahiti (South Pacific). *Journal for Nature Conservation* 68 <https://doi.org/10.1016/j.jnc.2022.126198>
- Maloney A.E., Richey J.N., Nelson D.B., Hing S.N., Sear D.A., Hassall J.D., Langdon P.G., Sichrowsky U., Schabetsberger R., Malau A., Meyer J.-Y., Croudace I.W. & Sachs J.P. **2022**. Contrasting common era climate and hydrology sensitivities from paired lake sediment dinosterol hydrogen isotope records in the South Pacific Convergence Zone. *Quaternary Science Reviews* 281. <https://doi.org/10.1016/j.quascirev.2022.107421>
- Fernandez-Palascios J.-M., Kreft H., Irl S., Norder S., Ah-Peng C., Borges P., Burns K., de Nascimento L., Meyer J.-Y., Montes E. & Drake D. **2021**. Scientist's warning: the outstanding biodiversity of islands is in peril. *Global Ecology and Conservation* 31 <https://doi.org/10.1016/j.gecco.2021.e01847>
- Meyer J.-Y., Taureau V., Bisarah L., Madi Moussa R., Gorchakova E. & Caillaud A. **2021**. Introduced mangroves in the Society Islands, French Polynesia (South Pacific): invasive species or novel ecosystem? *Biological Invasions* 23: 2527-2539.
- Véron S., Rodrigues-Vaz C., Lebreton E., Ah-Peng C., Boulet V., Chevillotte H., Gradstein S. R., Jérémie J., Lavocat Bernard E, Lebouvier M., Meyer J.-Y., Munzinger J., Poncy O., Thouvenot L., Viscardi G., Gargominy O., Leblond S., Pignal M., Rouhan G., Tercerie S., Invernón V., Muller S. **2021**. For an improved conservation of endemic floras: an assessment of the endemic spermatophytes, pteridophytes and bryophytes of the French Overseas territories. *Biodiversity and Conservation* 30: 2097-2124.
- Barrett R.L., Taputuarai R., Meyer J.-Y., Bruhl J.J. & Wilson K.L. **2021**. Reassessment of the taxonomic status of Cyperaceae on Rapa Iti, Austral Islands, French Polynesia, with a new combination, *Morelotia involuta*. *Telopea* 24: 171-187.
- Gerlach J., Barker G.M., Bick C.S., Bouchet P., Brodie G., Christensen C.C., Collins T., Coote T., Cowie R.H., Fiedler G.C., Griffiths O., Florens F.V.B., Hayes K.A., Kim J., Meyer J.-Y., Meyer III W.M., Richling I., Slapcinsky J.D., Winsor L. & Yeung N.W. **2021**. Negative impacts of invasive predators used as biological agents against the pest snail *Lissachatina fulica*: the snail *Euglandina rosea* and the flatworm *Platydemus manokwari*. *Biological Invasions* 23(4): 997-1031.
- Larrue S., Meyer J.-Y., Fumanal B., Daehler C., Chadeyron J., Flores M. & Mazal L. **2020**. Seed rain, distance dispersal, and germination of the invasive tree *Spathodea campanulata* on the island of Tahiti, French Polynesia (South Pacific). *Pacific Science* 74(4): 405-417.
- Meyer N., Balkenhol N., Dutta T., Hofman M., Meyer J.-Y., Ritchie E., Alley C., Beranek C., Bugir C.K., Callen A., Clulow S., Cove M.V., Klop-Toker K., Lopez O.R., Mahony M., Scanlon R., Sharma S., Shute E., Upton R., Guilbault E., Griffin A.S., Hernandez Perez E., Howell L.G., King J.-P., Lenga D.,

- O'Donoghue P. & Hayward M. **2020**. Beyond species counts for assessing, valuing and conserving biodiversity: response to Wallach et al. 2019. *Conservation Biology* 35(1): 369-372.
- Knope M.L., Funk V.A., Johnson M.A., Wagner W.L., Datlof E.M., Johnson G., Crawford D., Bonifacino J.M., Morden C.W., Lorence D.H., Wood K.R., Meyer J.-Y. & Carlquist S. **2020**. Dispersal and adaptive radiation of *Bidens* (Compositae) across the remote archipelagoes of Polynesia. *Journal of Systematics and Evolution* 58(6): 805-822.
- Samaniego A., Griffiths R., Gronwald M., Murphy F., Le Rohellec M., Opiel F., Meyer J.-Y. & Russell J.C. **2020**. A successful Pacific rat *Rattus exulans* eradication on tropical Reiono Island (Tetiara Atoll, French Polynesia) despite low baiting rates. *Conservation Evidence* 17: 12-14.
- Johnson O.W., Tibbitts T.L., Weber M.F., Bybee D.R., Goodwill R.H., Bruner A.E., Smit, E.J., Buss E.L., Waddell T.Q.A., Brooks D.C., Smith C.D. & Meyer J.-Y. **2020**. Tracking the migration of Pacific Golden-Plovers from nonbreeding grounds at Moorea, French Polynesia, using Pinpoint GPS-Argos tags. *Wader Study* 127(1): 53-59.
- Sultan A., Roberston A.W., Callmander M.W., Phillipson P.B., Meyer J.-Y. & Tate J.A. **2019**. Widespread morphological parallelism in *Korthalsella* (Santalaceae, tribe Visceae): a molecular phylogenetic perspective. *Taxon* 68(6): 1204-1218.
- Prebble M., Anderson A., Augustinus P., Emmitt J., Fallon S., Furey L., Holdaway S.J., Jorgenson A., Ladefoged T.N., Matthews P.J., Meyer J.-Y., Phillipps R., Wallace R. & Porch N. **2019**. Early tropical crop production in marginal subtropical and temperate Polynesia. *PNAS* 116(18): 8824-8833.
- Meyer J.-Y., Laitame T. & Gaertner J.-C. **2019**. Short-term recovery of native vegetation and threatened species after restoration of a remnant forest in a small oceanic island of the South Pacific. *Plant Ecology and Diversity* 12(1):75-85.
- Libeau M., Meyer J.-Y., Taputuarai R. & Pouteau R. **2019**. Predicting the invasion risk of *Miconia calvescens* in the Marquesas Islands (South Pacific): a modeling approach. *Pacific Science* 73(1): 17-35.
- Jost X., Jost C.H. & Meyer J.-Y. **2019**. Flora and vegetation of Clipperton (La Passion) atoll, Northeastern Pacific Ocean: three centuries of changes and recent plant dynamics. *Atoll Research Bulletin* 623: 1-31.
- Davison J. Moora M., Öpik M., Ainsaar L., Ducouso M., Hiiesalu I., Jairus T., Johnson N., Jourand P. Kalamees R., Koorem K., Meyer J.-Y., Püssa K. Reier Ü., Pärtel M., Semchenko M., Traveset A., Vasar M. & Zobel M. **2018**. Microbial island biogeography: isolation shapes the life history characteristics but not diversity of root-symbiotic fungal communities. *The ISME Journal* 12: 2211-2224.
- Pillon Y., Stacy E. & Meyer J.-Y. **2018**. Phylogenetics and systematics of the South Polynesian genera *Apetahia* and *Sclerotheca* (Campanulaceae subfam. Lobelioideae). *Botany Letters* 165(2): 186-192.
- Pouteau R., Giambelluca T.W., Ah-Peng C. & Meyer J.-Y. **2018**. Will climate change shift the lower ecotone of tropical montane cloud forests upwards on islands? *Journal of Biogeography* 45(6): 1326-1333.
- Russell J., Meyer J.-Y., Holmes N. & Pagad S. **2017**. Invasive alien species on islands: impacts, distribution, interactions and management. *Environmental Conservation* 44(4): 359-370.
- Lorence D.H., Florence J. & Meyer J.-Y. **2017**. Reassessment of the *Psychotria speciosa* G. Forst. (Rubiaceae) complex in Tahiti, Society Islands, with a new combination and description of a new species, *Psychotria paulae* J.-Y. Meyer, Lorence & J. Florence, sp. nov. *Adansonia* 39(1): 41-53.
- Nitta J.H., Meyer J.-Y., Taputuarai R. & Davis C.C. **2017**. Life cycle matters: DNA barcoding reveals contrasting community structure between fern sporophytes and gametophytes. *Ecological Monographs* 87(2): 278-293.
- Prebble M., Whitau R., Meyer J.-Y., Sibley-Punnett L., Fallon S. & Porch N. **2016**. Abrupt late Pleistocene climate and ecological change in the island on Tahiti (French Polynesia). *Journal of Biogeography* 43(12): 2438-2453.
- Pouteau R., Meyer J.-Y., Blanchard P., Nitta J.H., Terorotua M. & Taputuarai R. **2016**. Fern species richness and abundance as indicators of climate change on high-elevation islands: evidence from an elevational gradient on Tahiti (French Polynesia). *Climatic Change* 138(1): 143-156.
- Larrue S., Daehler C., Meyer J.-Y., Pouteau R. & Voltaire 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.
- González Muñoz N., Bellard C., Leclerc C., Meyer J.-Y. & Courchamp F. **2015**. Assessing current and future risks of invasion by the «green cancer» *Miconia calvescens*. *Biological Invasions* 17(11): 3337-3350.
- Cibois A., Thibault J.-C., Meyer J.-Y. & Pasquet, E. **2015**. On the origin of sympatric fruit doves in a small and remote Pacific archipelago. *Pacific Science* 69(3): 299-312.
- 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.
- Pouteau R., Meyer J.-Y. & Larrue S. **2015**. Using range filling rather than prevalence of invasive plant species for management prioritisation: the case of *Spathodea campanulata* in the Society Islands (South Pacific). *Ecological Indicators* 54: 87-95.
- Soubeyran Y., Meyer J.-Y., Lebouvier M., De Thoisy B., Lavergne C., Urtizberea F. & Kirchner F. **2015**. Dealing with invasive alien species in the French overseas territories: results and benefits of a seven-year initiative. *Biological Invasions* 17(2): 545-554.
- Meyer J.-Y., Pouteau R., Taputuarai R., Fourdrigniez M. & Spotswood E. **2015**. The importance of novel and hybrid habitats for plant conservation in islands: a case study on Moorea (South Pacific). *Biodiversity and Conservation* 24(1): 83-101.
- Thibault J.-C., Cibois A. & Meyer J.-Y. **2015**. Birds of 'Uvea (Wallis), Futuna and Alofi islands (South-West Pacific): an update. *Notornis* 62(1): 30-37.
- Gillespie T.W., O'Neill K., Keppel G., Pau S., Meyer J.-Y., Price J.P. & Jaffré T. **2014**. Prioritizing conservation of tropical dry forests in the Pacific. *Oryx* 48(3): 337-344.
- Chevillotte H., Meyer J.-Y., Mellado-Forichon T., Florence J., Emmanuelli E., Habert E., Galzin R. & Ferraris J. **2014**. Evaluation et suivi de la biodiversité dans l'île de Moorea, Polynésie française : approche méthodologique appliquée aux écosystèmes terrestres et marins. *Revue d'Ecologie (Terre et Vie)* 69(3-4): 267-284.
- Meyer J.-Y. **2014**. Critical issues and new challenges for research and management of invasive plants in the Pacific Islands. *Pacific Conservation Biology* 20(2): 146-164.
- Keppel G., Morrison C., Meyer J.-Y. & Boehmer H.J. **2014**. Isolated and vulnerable: the history and future of Pacific Island terrestrial biodiversity. *Pacific Conservation Biology* 20(2): 136-145.
- Spotswood E., Meyer J.-Y. & Bartolome J. **2013**. Preference for an invasive fruit trumps fruit abundance in selection by an introduced bird in the Society Islands, French Polynesia. *Biological Invasions* 15(10): 2147-2156.
- Thibault J.-C., Cibois A., Butaud J.-F., Jacq F., Poroi E. & Meyer J.-Y. **2013**. Breeding birds of Hatuta'a, Marquesas Islands: species inventory and influence of drought on their abundance. *Bulletin of the British Ornithologists Club* 133(3): 168-177.
- Meyer J.-Y., Fourdrigniez M. & Taputuarai R. **2012**. Restoring habitat for native and endemic plants through the introduction of a fungal pathogen to control the alien invasive tree *Miconia calvescens* in the island of Tahiti. *BioControl* 57(2): 191-198.
- Spotswood E., Meyer J.-Y. & Bartolome J. **2012**. An invasive tree alters the structure of seed dispersal networks between birds and plants on islands. *Journal of Biogeography* 39(11): 2007-2020.
- Delnatte C. & Meyer J.-Y. **2012**. Plant introduction, naturalization, and invasion in French Guiana (South America). *Biological Invasions* 14(5): 915-927.
- Hardesty B.D., Le Roux J.J., Rocha O.J., Meyer J.-Y., Westcott D. & Wiczorek A.M. **2012**. Getting there from here: testing the paradigm of invasion success. *Diversity & Distributions* 18(2): 147-157.
- Jacq F.A. & Meyer J.-Y. **2012**. Taux de mortalité et causes de disparition de *Apetahia raiateensis* (Campanulaceae), une plante endémique de l'île de Raiatea (Polynésie française). *Revue d'Ecologie (Terre et Vie)*, Supplément 11: 57-72.
- Pouteau R., Meyer J.-Y., Taputuarai R. & Stoll B. **2012**. Support vector machine to map rare and endangered native and endemic plants in Pacific island forests. *Ecological Informatics* 9: 37-46.
- Meyer J.-Y. & Fourdrigniez M. **2011**. Conservation benefits of biological control: the recovery of a threatened endemic plant subsequent to the introduction of a pathogen agent to control a dominant invasive tree on the island of Tahiti (South Pacific). *Biological Conservation* 144(1): 106-113.
- Pouteau R., Meyer J.-Y. & Stoll B. **2011**. A SVM-based model for predicting distribution of the invasive tree *Miconia calvescens* in tropical rainforests. *Ecological Modelling* 222: 2631-2641.
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- Larrue S., Meyer J.-Y. & Chiron T. **2010**. Anthropogenic vegetation contributions to Polynesia's social heritage: the legacy of candlenut tree (*Aleurites moluccana*) forests and bamboo (*Schyzostachium glaucifolium*) groves on the island of Tahiti. *Economic Botany* 64(4): 329-339.
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- Meyer J.-Y. & Butaud J.-F. **2009**. The impacts of rats on the endangered native flora of French Polynesia (Pacific Islands): drivers of plant extinction or coup de grâce species? *Biological Invasions* 11(7): 1569-1585.
- Lee T., Meyer J.-Y., Burch J.B., Pearce-Kelly P. & Ó Foighil D. **2008**. Not completely lost: two partulid tree snail species persist on the highest peak of Raiatea, French Polynesia. *Oryx* 42(4): 615-619.
- Le Roux J.J., Wicczorek A.M. & Meyer J.-Y. **2008**. Genetic diversity and structure of the invasive tree *Miconia calvescens* in Pacific islands. *Diversity and Distributions* 14(6): 935-948.
- Meyer J.-Y. **2007**. Conservation des forêts naturelles et gestion des aires protégées en Polynésie française. *Bois et Forêt des Tropiques* 291(1): 25-40.
- Meyer J.-Y., Duploux A. & Taputuarai R. **2007**. Dynamique des populations de l'arbre endémique *Myrsine longifolia* (Myrsinacées) dans les forêts de Tahiti (Polynésie française) envahies par *Miconia calvescens* (Mélastomatacées) après introduction d'un champignon pathogène de lutte biologique : premières investigations. *Revue d'Ecologie (Terre Vie)* 62(1): 17-33.
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- Meyer J.-Y. **2004**. Threat of invasive alien plants to native flora and forest vegetation of Eastern Polynesia. *Pacific Science* 58(3): 357-375.
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Scientific books and book chapters

- Meyer J.-Y. **submitted**. Potential impacts of climate change on the terrestrial biodiversity in the tropical islands of French Polynesia (South Pacific Ocean): extinctions *versus* invasions. In Poirat F. et al. (eds.) *Actes du Colloque Insularité(s) et Changement Climatique*. Editions de la Maison des Sciences de l'Homme du Pacifique, Papeete.
- Manner H.I., Mueller-Dombois D.M., Rapaport M., Meyer J.-Y. & Boehmer H.J. **in press (2024)**. Terrestrial Ecosystems of the Pacific Islands. Pp. 219-253 in Rapaport M. (ed.) *The Pacific Islands: Environment and Society*. University of Hawaii Press, Honolulu.
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- Meyer J.-Y. & Palmas P. **2024**. Monographie géographique : Polynésie française. In Savouré-Soubelet A., Aulagnier S., Haffner P., Maille A., Moutou F., Richard-Hansen C., Ruelle S. & Veron G. *Atlas des Mammifères Sauvages de France. Volume 3. Carnivores et Primates*. Muséum national d'Histoire naturelle, OFB, Collection Patrimoines Naturels 35, Paris.
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- Meyer J.-Y. & Fourdrigniez M. **2019**. Islander perceptions of invasive alien species: the role of socio-economy and culture in small isolated islands of French Polynesia (South Pacific). Pp 510-516 in Veitch C.R., Clout M.N., Martin A.R., Russell J.C. & West C.J. (eds.) *Island Invasives: Scaling up to Meet the Challenge*. Proceedings of the International Conference on Island Invasives 2017. IUCN, Gland, 734 pp.
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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 18 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.
- Major collaborator of botanist Jacques Florence (IRD, Muséum national d'Histoire naturelle, Paris), author of the three volumes on the Flora of French Polynesia and of the "Nadeaud botanical database" (2007, and updated in 2019 <http://nadeaud.ilm.pf>), and collaborator of 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 "*Global Change Biology*", "*Conservation Letters*", "*Journal of Environmental Management*", "*Conservation Biology*", "*Journal of Applied Ecology*", "*Landscape and Urban Planning*", "*Biological Conservation*", "*Ecology*", "*Quaternary Science Reviews*", "*Journal of Biogeography*", "*Diversity and Distributions*", "*Annals of Botany*", "*Forest Ecology and Management*", "*Biological Invasions*", "*Biodiversity and Conservation*", "*NeoBiota*" (e-journal), "*Perspectives in Plant Ecology, Evolution and Systematics*", "*PlosOne*" (e-journal), "*Biotropica*", "*Oryx. The International Journal of Conservation*", "*Ecology and Evolution*", "*PeerJ*" (e-journal), "*Biological Control*", "*Insect Conservation and Diversity*", "*Diversity*" (e-journal), "*Journal for Nature Conservation*", "*Journal of Ornithology*", "*BioControl*", "*South African Journal of Botany*", "*Weed Research*", "*Ecological Research*", "*Acta Oecologia*", "*Austral Ecology*", "*Pacific Science*", "*Journal of Tropical Ecology*", "*Invasive Plant Species and Management*", "*Australian Journal of Botany*", "*Zoosystema*", "*New Zealand Journal of Botany*", "*Revue d'Ecologie (Terre Vie)*", "*Journal of the Polynesian Society*", "*Acta Botanica Hungarica*", "*Tropical Conservation Science*" (e-journal), "*Phytologia*" (e-journal), "*Biodiversity Data Journal*" (e-journal), "*Vertigo*" (e-journal), "*Pacific Conservation Biology*", "*Atoll Research Bulletin*".
- 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).
- Scientific collaborations with: University of California at Berkeley (USA), Smithsonian Institution of Washington (USA), Bishop Museum of Honolulu (Hawaii, USA), University of Hawaii at Manoa (Hawaii, 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) 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 "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 on Invasive Species in the French Overseas Territories" of the French IUCN Committee (**2006-2020**).
- 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 “Tetiara Society Scientific Advisory Board” **(2014-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-on going)**.
- Member of the “Conseil Scientifique Territorial du Patrimoine Naturel” (CSTPN) de Saint-Pierre et Miquelon **(2021-on going)**.
- 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 Forêt des Tropiques” **(2023-2025)**.
- Member of the “UMR 241 SECOPOL (Santé et services des écosystèmes polynésiens)” **(2024-on going)**.