

Jack L Manera

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I am an early-career researcher in behavioural ecology and ecotoxicology, motivated by a deep-rooted passion for conservation and the natural world. My research examines how anthropogenic disturbances alter the behaviour, cognition, and social dynamics of aquatic animals, integrating controlled experimental biology with open and reproducible data science. I use R, Python, and GitHub to build transparent analytical workflows and actively maintain public repositories, including the R package *cleanRfish*. This commitment to reproducibility also underpins my role as a Data Editor for *Proceedings of the Royal Society B*, where I support transparent data and code practices in published research. I thrive in collaborative, close-knit teams and enjoy communicating science to diverse audiences.

Academic Qualifications

2022 - Ongoing	Doctor of Philosophy (Biological sciences) Monash University Thesis title: The impact of psychoactive pharmaceutical pollutants on cognition and social behaviour in fish Supervisor: Prof. Bob Wong, Asst. Prof. Michael Bertram, Dr. Jake Martin
2021 - 2022	Bachelor of Science Honours (1st class) Monash University Thesis title: Effects of boat noise on risk perception and communication in the mutualistic relationship between Steinitz's gobies and <i>Alpheus</i> shrimp Supervisor: Prof. Bob Wong, Dr. Jake Martin
2016 - 2019	Bachelor of Biomedical Science & Bachelor of Science, Double Degree Monash University Zoology Major Biomedicine Major Chemistry Minor

Publications

JL Manera, ER Moore, JM Martin, MG Bertram, BBM Wong (2026) Neuroactive pollution disrupts cognition in fish by causing sex-specific effects on spatial learning *Environmental Science & Technology*

ER Moore, **JL Manera**, JA Brand, MG Bertram, BBM Wong (2026) Executive functioning in wild guppies: investigating the impact of a pharmaceutical pollutant *Animal Cognition*

AB Boxall, P Amerasinghe, S Beckenham, MG Bertram, S Gaw, AD Gray, KA Kidd, LM Langan, KM Leung, **JL Manera**, KS Miglioranza (2026) Environmentally safe and just pharmacy: a framework and action plan for operating within the earth system boundary for novel entities. *Environmental Science & Technology*

RV Eastment, S Ozeki, **JL Manera**, MD McGee, CM Whittington, BBM Wong (2026) Ovarian responses to 17 α -ethinylestradiol in a marine livebearer, the Southern crested weedfish. *Reproduction*

S Ozeki, RV Eastment, **JL Manera**, R Rafeeq, A Peters, JM Martin, BBM Wong (2026) Exposure to the oestrogenic pollutant 17 α -ethinylestradiol (EE2) does not alter the behaviour of a coastal marine fish, *Cristiceps australis*. *Ethology*

JL Manera, JM Martin, MM Palacios, RT Mason, MI McCormick, BBM Wong (2025) Boat noise alters individual behaviors but not communication between partners in a fish-shrimp mutualism *Behavioral Ecology*

MG Bertram, M Ågerstrand, S Balshine, JA Brand, BW Brooks, Z Dang, AT Ford, H Hollert, MK LeFauve, **JL Manera**, JM Martin, M Michelangeli, M Moiron, ER Moore, HJ Puglis, A Sih, JA Steevens, ESJ Thoré,

BBM Wong, L Zink, T Brodin (2025) Are behavioral ecotoxicity endpoints relevant at the population level? Evidence-based insights for environmental protection *Environmental Science & Technology*

K Morrison, G Melhado, APH Bose, R Eastment, M Lagisz, **JL Manera**, M Michelangeli, S Ozeki, BBM Wong, Y Yang, S Nakagawa (2025) The impacts of pesticide exposure on fish conspecific interactions: A systematic review and meta-analysis *Environmental Pollution*

IM Vinogradov, U Aich, **JL Manera**, KN Fergusson, MD Jennions, BBM Wong (2025) Sex-specific effect of long-term fluoxetine exposure on inhibitory control in guppies (*Poecilia reticulata*) *Behavioral Ecology and Sociobiology*

EL Blom, IK Dekhla, MG Bertram, **JL Manera**, C Kvarnemo, O Svensson (2024) Anthropogenic noise disrupts early-life development in a fish with paternal care *Science of the Total Environment*

H Tan, JA Brand, BO Clarke, **JL Manera**, JM Martin, BBM Wong, LA Alton (2023) No evidence that the widespread environmental contaminant caffeine alters energy balance or stress responses in fish *Ethology*

M Andersson, O Svensson, T Swartz, **JL Manera**, MG Bertram, EL Blom (2023) Increased noise levels cause behavioural and distributional changes in Atlantic cod and saithe in a large public aquarium—A case study *Aquaculture, Fish and Fisheries*

Awards and Grants

2026	School of Biological Sciences ECR National Conference Support Award Monash School of Biological Sciences (\$750 AUD)
2023-25	Holsworth Wildlife Research Endowment (2 rounds) Ecological Society of Australia (2 × \$8,500 AUD)
2024	Bröderna Edlunds donationsfond Swedish University of Agricultural Sciences (85,000 SEK, ~ \$12,700 AUD)
2024	Faculty of Science Award for Outstanding Contributions by a Graduate Research Student to the Life of the Faculty Community Monash University (\$2,000 AUD)
2024	Australian Evolution Society Student talk award and student travel grant (\$300 AUD)
2024	International Society for Behavioural Ecology Student travel grant (\$1200 USD)
2023	Society of Environmental Toxicology and Chemistry SETAC Australasia student travel grant (\$1500 AUD)
2023	Australian Society for the Study of Animal Behaviour Conference student talk award

Teaching Experience

2025-26	Guest lectures on “Social behaviour” for BIO3052 Animal Behaviour, <i>Monash University</i>
2023-26	Teaching Associate for BIO3052 – Animal behaviour – Biology, <i>Monash University</i>
2023-26	Teaching Associate for BMS1021 – Cells, tissues, and organisms – Biomedicine, <i>Monash University</i>
2026	Teaching Associate for ENS5010 – Global Challenges and Sustainability – Masters of Environment and Sustainability, <i>Monash University</i>

Other Achievements	
2026 - Ongoing	Data editor for the <i>Proceedings of the Royal Society B</i>
2025- Ongoing	Developed and actively maintain the publicly available R-package <i>cleanRfish</i>
2025- Ongoing	Member of the Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (SORTEE)
2025	Published magazine article: JL Manera , JA Brand, M Amcoff, MG Bertram (2025) Att droga fisken: våra läkemedel förorenar! [Drugging the fish: our pharmaceuticals pollute!] <i>Qvintensen</i> , (2), 12–15
2024-26	Monash School of Biological Sciences sustainability representative
2023	Postgraduate committee student representative
2021	Volunteering for the #SeaToSource ocean clean-up project
2019	Voluntary research assistance for Dr Reid Tingley and EnviroDNA
2016	Vice president of the Monash University Logan Hall society
2015-17	Staffed and ran the National Youth Science Forum (NYSF)
2015	Voluntary research assistance Dr Peter Dallas, Telethon Institute of Child Health Research
2015	BSB42015 - Certificate IV in Leadership and Management and Outward-Bound leadership and teamwork course

Non-academic Professional Experience	
2021–22	Plasterer Distinct Plastering
2018-19	Waiter, Bartender and Barista Pembroke Bar and Kitchen
2017-18	Waiter, Bartender and Barista Humbdingers
2015	Cook Perth Royal Show
2013-14	Cashier/Butcher Margaret River Venison Farm
2012	Waiter Cape Lodge Restaurant

Referees provided on request