

## FRASER JANUCHOWSKI-HARTLEY, PhD

Email: f.a.hartley@gmail.com/fjanucho@nova.edu | Phone: +1.954.262.3666 | Skype: fraser.hartley | Github: FraserJH

### RESEARCH SUMMARY

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I am a quantitative scientist with over 15 years of experience in coral reef science. My research focuses on understanding coral reef socio-ecological systems, reef fish ecology, and how to maintain sustainable resource use and ecosystem health under local and global change. In addition to conducting world-leading research on how fishing on coral reefs can mediate fish behavior and the relevance to management, I have worked on reef fish community ecology; how climate induced bleaching influences coral reef growth and health; and the adaptation of subsistence communities to environmental and social change. My experience of working in conservation organizations drove home the importance of social, as well as ecological dynamics to successful conservation and sustainable management. My research is interdisciplinary, and I work continuously with social scientists and conservation organizations to link ecological function with human resource use and well-being.

### PROFESSIONAL AND RESEARCH POSITIONS

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- 2023 - present    **Assistant Professor, Nova Southeastern University, Fort Lauderdale, Florida, USA**  
*Role:* Responsible for research, teaching and administrative duties. Principal investigator at the National Coral Reef Institute
- 2021 – 2022    **Lecturer, Enhanced Research Track, Swansea University, UK**  
*Role:* Responsible for teaching and administrative duties, module design, research, and project management. Led the Marine & Freshwater Research Theme and member of Department Research Committee.
- 2018 – 2021    **Sêr Cymru ERDF Co-fund Research Fellow, Swansea University, UK**  
*Project:* “*Ecological and management effects of behaviourally mediated fisheries*”  
*Role:* Independent research fellow working on reef fish communities and behavior in the Philippines, and model organisms (zebrafish, *Danio rerio*).
- 2018 – 2018    **Consultant - Marine Program, Wildlife Conservation Society, USA**  
*Project:* “*Marine Ecological Research Management AID (www.datamermaid.org)*”  
*Role:* Tested data platform for entering field data and collated and reviewed trait data on reef fishes.
- 2016 – 2018    **IRD Post-doctoral Fellow, UMR 248 MARBEC & UMR 250 ENTROPIE, France**  
*Project:* “*Identifying social-ecological bright spots for sustainable coral reef futures in the South Pacific*”  
*Role:* Independent research fellow investigating spatial and temporal changes in coral reef fisheries in New Caledonia. Managed budget, coordinated with provincial and regional fisheries managers
- 2013 – 2016    **Associate Research Fellow, Geography, University of Exeter, UK**  
*Project:* *Sustainable Poverty Alleviation from Coastal Ecosystem Services (SPACES)*.  
*Role:* Led collection of ecological coral reef data and fisheries surveys in Kenya & Mozambique, budget and logistical organization; conducted reef carbonate budget assessments; mentored local scientists.
- 2009 – 2009    **Marine Ecologist, Wildlife Conservation Society – Fiji Program, Fiji**  
*Role:* Conducted coral reef ecological surveys; responsible for the compilation, and quality control of data; assisted analysis of long-term monitoring data for the program.
- 2006 – 2009    **Marine Ecologist/Project Scientist/Ecological Field Team Leader, Wildlife Conservation Society – Papua New Guinea Program, Papua New Guinea**  
*Role:* Led and trained survey team, conducted community outreach for conservation and sustainable marine management; logistics and safety; fundraising and reporting; collaboration with research institutions.

### EDUCATION

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- 2013    **PhD: ARC Centre of Excellence for Coral Reef Studies, James Cook University, Australia**  
*Thesis:* “*Fear of fishers: anti-predator behaviour of coral reef fish and its relevance to fisheries management and conservation.*”
- 2005    **MSc: Tropical Coastal Management (Distinction), Newcastle University, UK**  
*Thesis:* “*Implications of a Kenyan marine protected area for biomass and community composition of the fish assemblage beyond its boundaries.*”
- 2003    **BSc: (Hons): Marine Biology (First Class), Newcastle University, UK**  
*Thesis:* “*Changing patterns of fish and benthic community structure with fishing effort on traditional Fijian fishing grounds.*”

**PUBLICATIONS (37; 3358 citations; h-index = 24)**

37. Sbragaglia V, Cecapollini E, Morroni L, **Januchowski-Hartley FA**. (in press) Advancing the understanding of spearfisher-fish behavioral interactions and their management implications. *Journal of Applied Ecology*
36. Zamborain-Mason J, MacNeil MA, Barnes ML, Bauman AG, Feary DA, Huertas V, **Januchowski-Hartley FA**, Lau JD, Mihalitsis M, Cinner JE. (2023) Downscaling global reference points to assess the sustainability of local fisheries. *bioRxiv*; 2023.12.15.571896. [doi.org/10.1101/2023.12.15.571896](https://doi.org/10.1101/2023.12.15.571896)
35. Sbragaglia V, Arlinghaus R, Blumstein DT, Diogo H, Gilglio VJ, Gordo A, **Januchowski-Hartley FA**, (+ 11 co-authors). (2023) A global review of marine recreational spearfishing. *Rev Fish Biol Fisheries* 33; 1199-1222. [doi.org/10.1007/s11160-023-09790-7](https://doi.org/10.1007/s11160-023-09790-7)
34. Cannon SE, *et al.*, (2023) Macroalgae exhibit diverse responses to human disturbances on coral reefs. (2023) *Global Change Biology*. 00:1-13. [doi.org/10.1111/gcb.16694](https://doi.org/10.1111/gcb.16694)
33. Januchowski-Hartley SR, Pawar SK, Yang X, Jorissen M, Bristol R, Mantel S, White JC, **Januchowski-Hartley FA**, Roces-Díaz JV, Gomez CC, Pregnoiato M. (2022) Supporting proactive planning for climate change adaptation and conservation using an attributed road-river structure dataset. *Journal of Environmental Management*. 1; 321:115959. [doi.org/10.1016/j.jenvman.2022.115959](https://doi.org/10.1016/j.jenvman.2022.115959)
32. Bauman A, **Januchowski-Hartley F**, Teo A, Todd P. (2022) Further flattening of a degraded, turbid reef systems following a severe coral bleaching event. *Frontiers in Marine Science* 9:910085. [doi.org/10.3389/fmars.2022.910085](https://doi.org/10.3389/fmars.2022.910085)
31. Barnes M, Jasny L, Bauman A, Ben J, Berardo R, Bodin Ö, Cinner J, Feary D, Guerrero A, **Januchowski-Hartley FA**, Kuange JH, Lau JD, Wang P, Zamborain-Mason J. (2022) ‘Bunkering down’: how one community is tightening social-ecological network structures in the face of global change. *People & Nature* 4, 1032-1048. [doi.org/10.1002/pan3.10364](https://doi.org/10.1002/pan3.10364)
30. Smallhorn-West P, Cohen PJ, Morais RA, **Januchowski-Hartley FA**, Ceccarelli DM, Malimali S, Stone K, Warren R, Cinner J. (2022) Hidden benefits and risks of partial protection for coral reef fisheries. *Ecology and Society*. **27**, 26. [doi.org/10.5751/ES-13112-270126](https://doi.org/10.5751/ES-13112-270126)
29. Goh TZY, Bauman AG, **Januchowski-Hartley FA**, Morgan KM, Seah JCL, Todd PA. (2021) Growth and carbonate production of crustose coralline algae on a degraded turbid reef system. *Marine Pollution Bulletin*. **173**, 113135. [doi.org/10.1016/j.marpolbul.2021.113135](https://doi.org/10.1016/j.marpolbul.2021.113135)
28. Januchowski-Hartley SR, White JC, Pawar SK, **Januchowski-Hartley FA**, England J. (2021) Addressing road-river infrastructure gaps using a model-based approach. *Environmental Research: Infrastructure and Sustainability*. [doi.org/10.1088/2634-4505/ac068c](https://doi.org/10.1088/2634-4505/ac068c)
27. **Januchowski-Hartley FA**, Bauman AG, Morgan KM, Seah JCL, Huang D, Todd PA. (2020) Accreting coral reefs in a highly urbanized environment. *Coral Reefs*, **39**:717-731. [doi.org/10.1007/s00338-020-01953-3](https://doi.org/10.1007/s00338-020-01953-3)
26. **Januchowski-Hartley FA**, Vigliola L, Maire E, Kulbicki M, Mouillot D. (2020) Low fuel cost and rising fish price threaten coral reef wilderness. *Conservation Letters*, **13**, e12706. [doi.org/10.1111/conl.12706](https://doi.org/10.1111/conl.12706)
25. Cinner JE, Lau JD, Bauman AG, Feary DA, **Januchowski-Hartley FA**, Rojas CA, Barnes ML, Bergseth BJ, Shum E, Lahari R, Ben F, Graham NAJ. (2019) Sixteen years of social and ecological dynamics reveal challenges and opportunities for adaptive management in sustaining the commons. *Proceedings of the National Academy of Sciences*. **116**, 26474-26483. [doi.org/10.1073/pnas.1914812116](https://doi.org/10.1073/pnas.1914812116)
24. Thiault L, Mora C, Cinner JE, Cheung WWL, Graham NAJ, **Januchowski-Hartley FA**, Mouillot D, Sumaila UR, Claudet J. (2019) Escaping the perfect storm of simultaneous climate change impacts on agriculture and marine fisheries. *Science Advances*, **5**, eaw9976. [doi.org/10.1126/sciadv.aaw9976](https://doi.org/10.1126/sciadv.aaw9976)
23. Bauman AG, Seah JCL, **Januchowski-Hartley FA**, Hoey AS, Fong J, Todd PA. (2019) Fear effects associated with predator presence and habitat structure interact to alter herbivory on coral reefs. *Biology Letters*, **15**, 20190409. [doi.org/10.1098/rsbl.2019.0409](https://doi.org/10.1098/rsbl.2019.0409)
22. Darling ES, McClanahan TR, Maina J, Guernsey GG, Graham NAJ, **Januchowski-Hartley FA**, (+74 co-authors). (2019) Social-environmental drivers inform strategic management of coral reefs in the Anthropocene. *Nature Ecology & Evolution*. **3**, 1341-1350. [doi.org/10.1038/s41559-019-0953-8](https://doi.org/10.1038/s41559-019-0953-8)
21. Carvalho P, Jupiter SD, **Januchowski-Hartley FA**, Goetze J, Claudet J, Weeks R, Humphries A, White C. (2019) Optimized fishing through periodically harvested closures. *Journal of Applied Ecology* **56**, 1927-1936. [doi.org/10.1111/1365-2664.13417](https://doi.org/10.1111/1365-2664.13417)
20. Samia DSM, Bessa E, Blumstein DT, Nunes JACC, Azzuro E, Morroni L, Sbragaglia V, **Januchowski-Hartley FA**, Geffroy B. (2019) A meta-analysis of fish behavioural reaction to predators and human presence. *Fish & Fisheries* **20**, 817-829. [doi.org/10.1111/faf.12378](https://doi.org/10.1111/faf.12378)
19. Guerrero A, Bennet NJ, Wilson KA, Carter N, Gill D, Mills M, Ives, CD, Selinske MJ, Larrosa C, Bekessy S, **Januchowski-Hartley F**, Travers H, Wyborn CA, Nuno A. (2018) Achieving the promise of integration in social-ecological research: A review and prospectus. *Ecology & Society* **23**, 38. [doi.org/10.5751/ES-10232-230338](https://doi.org/10.5751/ES-10232-230338)
18. Perry CT, Alvarez-Filip L, Graham NAJ, Mumby PJ, Wilson SK, Kench PS, Manzello DP, Morgan KM, Slangen ABA, Thomson, **Januchowski-Hartley FA**, (+15 co-authors). (2018) Widespread loss of coral reef growth capacity to track sea-level rise under climate change. *Nature* **558**, 396-400. [doi.org/10.1038/s41586-018-0194-z](https://doi.org/10.1038/s41586-018-0194-z)

17. Goetze JS, Claudet J, **Januchowski-Hartley FA**, Langlois TJ, Wilson SK, White C, Weeks R, Jupiter SD. (2018) Demonstrating multiple benefits from periodically harvested fisheries closures. *Journal of Applied Ecology*. **55**, 1102-1113. [doi.org/10.1111/1365-2664.13047](https://doi.org/10.1111/1365-2664.13047)
16. Goetze JS, **Januchowski-Hartley FA**, Claudet J, Langlois TJ, Wilson SK, Jupiter SD. (2017) Fish wariness is a more sensitive indicator to changes in fishing pressure than abundance, length or biomass. *Ecological Applications*. **27**, 1178-1189. [doi.org/10.1002/eap.1511](https://doi.org/10.1002/eap.1511)
15. Darling ES, Graham NAJ, **Januchowski-Hartley FA**, Nash KL, Pratchett MS, Wilson SK. (2017) Relationships between structural complexity, coral traits, and reef fish assemblages. *Coral Reefs*. **36**, 561-575. [doi.org/10.1007/s00338-017-1539-z](https://doi.org/10.1007/s00338-017-1539-z)
14. **Januchowski-Hartley FA**, Graham NAJ, Wilson SK, Jennings S, Perry CT. (2017) Drivers and predictions of coral reef carbonate trajectories. *Proceedings of the Royal Society B*. **284**, 20162533. [doi.org/10.1098/rspb.2016.2533](https://doi.org/10.1098/rspb.2016.2533)
13. Goetze JS, Langlois T, Claudet J, **Januchowski-Hartley FA**, Jupiter SD. (2016) Periodically harvested closures require full protection of vulnerable species and longer closure periods. *Biological Conservation* **203**, 67-74. [doi.org/10.1016/j.biocon.2016.08.038](https://doi.org/10.1016/j.biocon.2016.08.038)
12. Daw TM, Hicks CC, Brown K, Chaigneau T, **Januchowski-Hartley FA**, Cheung WWL, Rosendo S, Crona B, Coulthard S, Sandbrook C, Perry C, Bandeira S, Muthiga NA, Schulte-Herbrüggen B, Bosire J, McClanahan TR. (2016) Elasticity in ecosystem services: exploring the variable relationship between ecosystems and human well-being. *Ecology & Society* **21**, 11. [doi.org/10.5751/ES-08173-210211](https://doi.org/10.5751/ES-08173-210211)
11. Perry CT, Murphy GN, Graham NAJ, Wilson SK, **Januchowski-Hartley FA**, East HK. (2015) Remote coral reefs can sustain high growth potential and may match future sea-level trends. *Scientific Reports* **5**, 18289. [doi.org/10.1038/srep18289](https://doi.org/10.1038/srep18289)
10. Perry CT, Kench PS, O'Leary MJ, Morgan KM, **Januchowski-Hartley F**. (2015) Linking reef ecology to island building: Parrotfish identified as major producers of island-building sediment in the Maldives. *Geology* **43**, 503–506. [doi.org/10.1130/G36623.1](https://doi.org/10.1130/G36623.1)
9. **Januchowski-Hartley FA**, Graham NAJ, Cinner JE, Russ GR. (2015) Local fishing influences coral reef fish behavior inside protected areas of the Indo-Pacific. *Biological Conservation* **182**, 8–12. [doi.org/10.1016/j.biocon.2014.11.024](https://doi.org/10.1016/j.biocon.2014.11.024)
8. Graham NAJ, Chong-Seng KM, Huchery C, **Januchowski-Hartley FA** & Nash KL. (2014) Coral reef community composition in the context of disturbance history on the Great Barrier Reef, Australia. *PLoS One* **9**, e101204. [doi.org/10.1371/journal.pone.0101204](https://doi.org/10.1371/journal.pone.0101204)
7. **Januchowski-Hartley FA**, Cinner JE, Graham NAJ. (2014) Fishery benefits from behavioural modification of fishes in periodically harvested fisheries closures. *Aquatic Conservation: Marine & Freshwater Ecosystems* **24**, 777–790. [doi.org/10.1002/aqc.2388](https://doi.org/10.1002/aqc.2388)
6. **Januchowski-Hartley FA**, Graham NAJ, Cinner JE, Russ GR. (2013) Spillover of fish naïveté from marine reserves. *Ecology Letters* **16**, 191–197. [doi.org/10.1111/ele.12028](https://doi.org/10.1111/ele.12028) \*Virginia Chadwick Award for Outstanding Student Publication, JCU, featured in Nature: News and Reviews <https://www.nature.com/articles/493167a>
5. Cinner JE, McClanahan TR, MacNeil MA, Graham NAJ, Daw TM, Mukminin A, Feary DA, Rabearisoa AL, Wamukota A, Jiddawi N, Campbell SJ, Baird AH, **Januchowski-Hartley FA**, Hamed S, Lahari R, Morove T, Kuange J. (2012) Comanagement of coral reef social-ecological systems. *Proc. Natl. Acad. Sci. U. S. A.* **109**, 5219–5222. [doi.org/10.1073/pnas.1121215109](https://doi.org/10.1073/pnas.1121215109) \*ISI Highly Cited Paper
4. **Januchowski-Hartley F**, Nash K & Lawton R. (2012) Influence of spear guns, dive gear and observers on estimating fish flight initiation distance on coral reefs. *Marine Ecology Progress Series* **469**, 113–119. [doi.org/10.3354/meps09971](https://doi.org/10.3354/meps09971)
3. Nash K, Graham NAJ, **Januchowski-Hartley FA**, Bellwood DR. (2012) Influence of habitat condition and competition on foraging behaviour of parrotfishes. *Marine Ecology Progress Series* **457**, 113–124. [doi.org/10.3354/meps09742](https://doi.org/10.3354/meps09742)
2. **Januchowski-Hartley FA**, Graham NAJ, Feary DA, Morove T, Cinner JE. (2011) Fear of fishers: human predation explains behavioral changes in coral reef fishes. *PLoS One* **6**, e22761. [doi.org/10.1371/journal.pone.0022761](https://doi.org/10.1371/journal.pone.0022761)
1. Feary DA, Cinner JE, Graham NAJ & **Januchowski-Hartley FA**. (2011) Effects of Customary Marine Closures on Fish Behavior, Spear-Fishing Success, and Underwater Visual Surveys. *Conservation Biology* **25**, 341–349. [doi.org/10.1111/j.1523-1739.2010.01613.x](https://doi.org/10.1111/j.1523-1739.2010.01613.x)

#### *Conference Proceedings & Book Chapters*

3. Wia J, **Januchowski-Hartley FA**, Lahari RU, Morove T, Perks HM, Holmes KE. (2012) Coral farming as means of sustaining livelihoods and promoting resource management. *Proceedings of the 12<sup>th</sup> International Coral Reef Symposium*, Cairns, Australia 9-13<sup>th</sup> July 2012.
2. Walker J, **Hartley FA**, Morove T, Karo M, Comley J, Perks HM. (2010) Short term response of coral reef fish communities under customary management in New Ireland, Papua New Guinea. *Proceedings of the 11<sup>th</sup> International Coral Reef Symposium*, Ft. Lauderdale, Florida, USA 7-11<sup>th</sup> July 2008, Vol 2, 1065-1070.
1. Chin A, ..., **Hartley F**, et al. 2008. Status of coral reefs in Australia and Papua New Guinea. In: *Status of the coral reefs of the world: 2008* (ed Wilkinson C), Global Coral Reef Monitoring Network and Reef and Rainforest Research Centre, Townsville, Australia, 296pp.

## INVITED\* AND CONTRIBUTED PRESENTATIONS

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2024	<i>Reef fish behavior, ecology and management in reef socio-ecological systems</i> , HCAS Florida Graduate Admissions' Lecture Series, NSU, Fort Lauderdale
2023	<i>Looking beyond biomass and diversity in assessing ecological impacts of small-scale MPAs</i> 5 <sup>th</sup> Asia Pacific Coral Reef Symposium, Singapore
2021	<i>Does fisher mediated fish behaviour influence ecosystem function?</i> 15 <sup>th</sup> International Coral Reef Symposium, Bremen Germany
2021	<i>*Incorporating spearfishing effects on fish behaviour into recreational fisheries management.</i> 9 <sup>th</sup> World Recreational Fishing Conference, Rotterdam, Netherlands
2019	<i>* Fear of fishers: how fish behaviour is incorporated into management in the South Pacific.</i> Leibniz Institute of Freshwater Ecology & Inland Fisheries, Berlin, Germany
2018	<i>Accreting coral reefs in a highly urbanized setting.</i> 4 <sup>th</sup> Asia-Pacific Coral Reef Symposium, Cebu, Philippines
2018	<i>Ecological drivers and predictors of carbonate budgets</i> Department of Biological Sciences, National University of Singapore, Singapore
2017	<i>Bright spots: how identifying deviance from expectation can inform coral reef conservation and management</i> 28 <sup>th</sup> International Congress for Conservation Biology, Cartagena, Colombia
2015	<i>Changing dynamics of reef framework production in the Western Indian Ocean.</i> 9 <sup>th</sup> Western Indian Ocean Marine Science Association Scientific Symposia, Durban, South Africa
2015	<i>Elasticity in ecosystem services: exploring the variable relationship between ecosystems and human wellbeing.</i> 27 <sup>th</sup> International Congress for Conservation Biology, Montpellier, France
2013	<i>Traditional management of fish behaviour to increase yield.</i> 12 <sup>th</sup> Pacific Science Inter Congress, Suva, Fiji
2012	<i>Spillover of naïveté: transfer of non-wary behaviour across the boundaries of marine reserves.</i> 12 <sup>th</sup> International Coral Reef Symposium, Cairns, Australia

## GRANTS & AWARDS (Total: ~ \$900,000)

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2024	Co-Principal Investigator, <i>Putting algal turf sediments in perspective along Florida's Coral Reef</i> , Florida Department of Environmental Protection ( <b>\$250,000</b> )
2023	Co-Principal Investigator, <i>National Coral Reef Initiative Earmark</i> (~ <b>\$240,000 of \$3.8million earmark</b> )
2018	Sêr Cymru II European Research & Development Foundation Co-fund Fellowship ( <b>£170,600</b> )
2016	IRD Mission longue durée 2016 ( <b>€10,000</b> )
2016	IRD Post-doctoral Fellowship ( <b>~€80,000 – salary plus institutional costs for two years</b> )
2013	James Cook University 2013 Virginia Chadwick Award ( <b>AU\$1000</b> )
2012	Fisheries Society of the British Isles Travel Grant ( <b>£900</b> )
2011	ARC Centre of Excellence for Coral Reef Science Graduate Research Scheme ( <b>AU\$2,600</b> )
2010	James Cook University International Postgraduate Research Scholarship ( <b>AU\$148,500</b> )
2004	Natural Environment Research Council Masters Studentship ( <b>£10,010</b> )

## TEACHING AND ADVISING

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### TEACHING

2024/25	MSMS6023 – Animal Behavior and Conservation; MBIO1400 – Explorations in Marine Science
2023-	MSMS6002 – Coral Reef Ecology Contributing lecturer, fish ecology.
2020-2022	BIO112 – Life in the Oceans (Introduction to Marine Biology); module creator and lead. Designed content and exams, logistics and delivery for 200 students in both fully online and in-person teaching; BIO330 – Tropical Marine Ecology & Conservation; core lecturer coral ecosystems & conservation; BIO346 – Professional Skills in Marine Biology; contributing lecturer and field leader.
2020-2021	BIOM37B – Conservation of Aquatic Resources; guest lecturer coral reef conservation.
2018-2020	BIO330 – Tropical Marine Ecology & Conservation; guest lecturer coral ecosystems; BIOM32 – Ecosystems: Ecology, Conservation & Resource Management, guest lecturer.

### ADVISING

#### *Nova Southeastern University*

2024	Primary advisor: Emma Brennan (PhD); Lauren Dalton, Elizabeth Saraf, Madison Androne (MSMS) Secondary advisor: Sofia El Rass, Nicole Messerlian (MSMS)
2023	Secondary advisor: Bethany Cousins (Graduated MSMS)

#### *Swansea University*

2021 – 2022 Three Masters dissertations, one honours dissertation  
2020 – 2021 Two Masters dissertations, two honours dissertations  
2020 – 2022 Academic mentor for 21 undergraduate students  
2019 – 2020 One Masters dissertation

#### **Exeter University**

2013 – 2015: two MSc students/graduates from Universidade Eduardo Mondlane, Maputo, Mozambique

#### **Wildlife Conservation Society**

2006 – 2009: Mentored and trained 9 Papua New Guinean graduates from University of Papua New Guinea in reef ecology and social surveys. Four mentees subsequently completed MSc studies outside Papua New Guinea

### **WORKING GROUPS**

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2019 – 2022 Horizon 2020 Grounding Responsible Research and Innovation Practices (GRRIP) in Marine Research Performing Organizations, Swansea University, UK  
2016 – 2018 Reef-Futures: reef services in the Anthropocene, UMR MARBEC, France  
2015 – 2018 Applying socio-ecological approaches in conservation science, Centre of Excellence for Environmental Decisions, Australia  
2013 – 2018 Periodically harvested closures working group, WCS Fiji/Packard Foundation, Fiji

### **EDITING AND REVIEWING**

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2022 – present Associate Editor, *Frontiers in Marine Science*  
2022 – present Associate Editor, *Journal of Applied Ecology*,  
2018 – 2022 Academic Editor *PLoS One*

**Reviewer for over 20 journals including:** *Biological Conservation*; *Biology Letters*; *Coral Reefs*; *Ethology*; *Fish and Fisheries*; *Marine Ecology Progress Series*; *Methods in Ecology & Evolution*; *Oecologia*; *Proceedings of the Royal Society B*.

**Reviewing (Books):** *Ecotourism's promise and peril: a biological evaluation* (Editors: Daniel Blumstein, Benjamin Geffroy, Diogo Samia, Eduardo Bessa); *Escaping From Predators: An Integrative View of Escape Decisions* (Editors: William Cooper & Daniel Blumstein).

**Theses:** One doctoral thesis; four Masters of Research (MRes); six Masters of Science (MSc) theses.

### **PROFESSIONAL SKILLS & SERVICE**

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#### **Service:**

- Swansea University College of Sciences Representative: Fixed-term Researchers Working Group
- Swansea University Department of Biosciences Marine and Freshwater Research Theme Co-Ordinator

#### **Data analysis & software:**

- Versatile data analyst with experience interpreting and analyzing ecological and social data using R, including univariate and multivariate analysis, hierarchical modelling, and visualization.
- Additional experience in SQL, SPSS, Microsoft Office Suite, QGIS

#### **Certifications:**

- PADI Divemaster, DFA Pro
- Google Data Analytics Certificate

#### **Research skills:**

- Extensive experience designing and conducting ecological survey techniques, including > 3000 hours of coral reef field surveys, coral and reef fish identification (both Indo-Pacific and Caribbean), video-survey techniques (BRUVs, DOVs) and fisheries surveys
- High-level experience in conducting inter-disciplinary work, including conceptualizing theory, and designing and implementing social and demographic data collection
- Excellent communication and organizational skills, with extensive experience running field program in remote areas, including logistics, budget, reporting, management, living and working in remote communities, including stakeholder engagement, and health and safety responsibilities.

**Languages:** English, French (Level B1 Common European Framework), conversational Tok Pisin (Papua New Guinea)

**Outreach:** Philippines Reef and Rainforest Conservation Foundation, Marine & Wildlife Camp (2019 - )  
Southern Negros Conservation Alliance

