

CURRICULUM VITAE
Friederike Katharina Clever

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EDUCATION

Degrees

- Ph.D. / 23.03.2022 Environmental Biology, Manchester Metropolitan University, Manchester, UK
Supervisor: Richard Preziosi
Thesis title: *Multi-level responses of coral reef fishes to habitat degradation: An investigation with spatial, molecular and functional tools*
- Diplom (M.A. equiv.) / 11.1999 Fine Arts, Karlsruhe University of Arts and Design, DE

PROFESSIONAL EXPERIENCE (selected)

- Pre-doctoral Fellow, Smithsonian Tropical Research Institute (2018 – 2020). Advisors: Matthieu Leray, Andrew Altieri, Owen McMillan. Project: *Metabarcoding of coral reef fish diets and gut microbiomes in relation to hypoxia induced habitat degradation across the Bahia Almirante at Bocas del Toro, Panama.*
- PhD field work Mesoamerican Barrier Reef Belize (2014 – 2016). Visually censused fish diversity at over 90 sites, collected fish specimen samples for next generation sequencing (metabarcoding) dietary analysis, conducted in-situ observations of fish feeding behaviour, assessed benthic communities using transects and photo-quadrats.
- Visiting Academic, The University of Manchester (2011 – 2013). Advisor: Richard Preziosi. Collected PhD pilot data on fish community structure at three Belizean atolls and analysed data; assisted with a study of population genetics of the yellowtail snapper (*Ocyurus chrysurus*) using specimen samples from Belize and Honduras, collected samples from fishermen, carried out DNA extractions, PCR.

PUBLICATIONS

Clever F, Sourisse JM, Preziosi RF, Eisen JA, Rodriguez Guerra EC, Scott JJ, Wilkins LGE, Altieri AH, McMillan WO, Leray M. 2022. *The gut microbiome variability of a butterflyfish increases on severely degraded Caribbean reefs.* Communications Biology 5, 770.

Leray M, Wilkins LGE, Apprill A, Bik HM, Clever F, De León ME, Connolly SR, Duffy JE, Ezzat L, Gignoux-Wolfsohn S, Herre EA, Kaye JZ, Kline DI, Kueneman JG, McCormick MK, McMillan WO, O’Dea A, Pereira TJ, Petersen JM, Petticord DF, Torchin ME, Vega Thurber R, Videvall E, Wcislo WT, Yuen B, Eisen JA. 2021. *Natural experiments and long-term monitoring are critical to understand and predict marine host–microbe ecology and evolution.* PLOS Biology 19(8): e3001322.

Harrison XA, McDevitt AD, Dunn JC, Griffiths SM, Benvenuto C, Birtles R, Boubli JP, Bown K, Bridson C, Brooks D, Browett SS, Carden RF, Chantrey J, Clever F, Coscia I, Edwards KL, Ferry N, Goodhead I, Highlands A, Hopper J, Jackson J, Jehle J, da Cruz Kaizer M, King T, Lea JMD, Lenka JL, McCubbin A, McKenzie J, de Moraes BLC, O’Meara DB, Pescod P, Preziosi RF, Rowntree JK, Shultz S, Silk MJ, Stockdale JE, Symondson WOC, de la Pena MV, Walker SL, Wood MD, Antwis RE. 2021. *Fungal microbiomes are*

determined by host phylogeny and exhibit widespread associations with the bacterial microbiome. Proceedings of the Royal Society B: Biological Sciences, 288, 1957, 8.

Gordon TAC, Harding HR, **Clever F**, Davidson IK, Davison W, Montgomery DW, Weatherhead RC, Windsor FM, Armstrong JD, Bardonnnet A, Bergman E, Britton JR, Côté IM, D'Agostino D, Greenberg LA, Harborne AR, Kahilainen KK, Metcalfe NB, Mills SC, Milner NJ, Mittermayer FH, Montorio L, Nedelec SL, Prokkola JM, Rutterford LA, Salvanes AGV, Simpson SD, Vainikka A, Pinnegar JK, Santos EM. 2018. *Fishes in a Changing World: Learning from the Past to Promote Sustainability of Fish Populations.* Journal of Fish Biology 92 (3): 804–27.

Book Chapters

Contribution of a case study for the 2nd edition of *Practical Field Ecology: A Project Guide.* Wheater CP, Bell JR, Cook PA. Wiley-Blackwell, August 2020, ISBN: 978-1-119-41322-6

PRESENTATIONS

Invited Seminars

- Leibniz-Zentrum für Marine Tropenforschung ZMT, 2021 Bremen, DE: *From communities to microbes: Spatial variation of coral reef fish functional roles in response to habitat degradation.* Hosted by Oscar Puebla.

Conference Presentations

- 14th International Coral Reef Symposium (ICRS) 2021 Bremen, DE, talk
- 8th International Barcode of Life Conference 2019, Trondheim, NO, poster and lightning talk
- Fellows' Symposium 2019, Smithsonian Tropical Research Institute, Ciudad de Panamá, PA, talk
- Congreso Científico Nacional 2019, Universidad de Panamá, Ciudad de Panamá, PA, poster
- British Ecological Society (BES) Aquatic Ecology Meeting 2017, London, UK, poster and lightning talk
- European Conference of Tropical Ecology 2017, Brussels, BE, poster
- Centre of Ecology and Evolution Symposium: *Understanding Change in Biodiversity and Consequences for Ecosystem Function* 2017, University College London, UK, poster and lightning talk
- Fisheries Society of the British Isles (FSBI) Symposium 2017, Exeter, UK, poster

GRANTS AND AWARDS

- Training Grant, The Fisheries Society of The British Isles (FSBI) (2022) – £510
- Conference Travel Award, Smithsonian Tropical Research Institute (2019) – \$1000
- Short Term Fellowship, Smithsonian Tropical Research Institute (2017) – \$5000
- Junior Scientist Travel Grant (non GS meetings) The Genetics Society (2017) – £850
- Travel Grant, The Fisheries Society of The British Isles (FSBI) (2017) – £1000
- MERIAN-Award (best poster) European Conference of Tropical Ecology 2017, Brussels, BE: *Local and regional differences in fish community structure on the Mesoamerican Barrier Reef* – €250
- Travel Grant, Manchester Metropolitan University (2017) – £400
- Environmental Sustainability Fund, Faculty of Life Sciences, The University of Manchester, UK (2016) – £2500
- Training Grant, The Genetics Society, UK (2016) – £850
- Training and Travel Grant, British Ecological Society, UK (2016) – £500

JOURNAL REVIEWS

Reviewer for: Journal of Fish Biology, Microbiome, Animal Microbiome