

Curriculum vitae
Dr. Mag^a. Alexandra ZIERITZ

University of Nottingham
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Mobile phone: +44 (0)7947 959375
 Born in St.Pölten, Austria: 02/07/1980
 Nationality: Austrian
 2 children, born 05/2013 and 02/2017

DEGREES AWARDED

11/2023	Fellow of the Higher Education Academy, Distinction
10/2010	PhD (Zoology), University of Cambridge, UK
11/2005	Mag.rer.nat. (Austrian MSc) (Biology/Ecology), University of Vienna, Austria

ACADEMIC RECORD & RESEARCH EXPERIENCE

Since 02/2022	Assistant Professor, <i>University of Nottingham</i> , School of Geography
02/2019 – 01/2022	Anne McLaren Fellow, <i>University of Nottingham</i> , School of Geography
01/2018 – 02/2019	Assistant Professor, <i>University of Nottingham Malaysia Campus</i> , School of Environmental and Geographical Sciences
05-12/2017	Postdoctoral Research Fellow, <i>University of Nottingham Malaysia Campus</i> , School of Environmental and Geographical Sciences

02 – 04/2017

Maternity leave

12/2014 – 03/2017	Postdoctoral Research Fellow, <i>University of Nottingham Malaysia Campus</i> , School of Environmental and Geographical Sciences
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05/2013 – 11/2014

Maternity leave

06/2012 – 04/2013	Postdoctoral Researcher, University of Cambridge, UK, Dep. of Zoology
04 - 05/2012	Visiting Scientist, North Carolina Museum of Natural Sciences, NC, USA
09/2011 – 03/2012	Postdoctoral Researcher, Kasetsart University Bangkok, Thailand, Dep. of Zoology
09/2010 – 07/2011	Postdoctoral Researcher/Research Associate Technische Universität München, Germany, Aquatic Systems Biology Unit
01/2007 – 10/2010 (submission 06/2010)	PhD candidate, University of Cambridge, UK, Dep. of Zoology <u>Thesis:</u> <i>Variability, function and phylogenetic significance of unionoid shell characters</i> . 173 pp.
10/1998 – 11/2005	Magistra in Biology/Ecology (Austrian MSc); <i>University of Vienna, Austria, Dep. of Limnology</i> ; graduated <i>magna cum laude</i> <u>Thesis:</u> <i>Distribution patterns and habitat characterisation of aquatic Mollusca in the Weidlingbach near Vienna, Austria</i> . 133 pp. 1 st Class.

PUBLICATIONS (PAST 10 YEARS)

[h-index = 27, i10 = 48, Total citations = 2499; Source GoogleScholar]

PEER-REVIEWED RESEARCH PAPERS

- (1) Ford H.V., Schrodtt F., **Zieritz A.** Exton D.A., van der Heijden G., Coles T. & Field R. (in press). A technological biodiversity monitoring toolkit for biocredits. *Journal of Applied Ecology*.
- (2) **Zieritz A.**, Pfeiffer J., Rahim K.A.A., Prayogo H., Anwari M.S., Diba F., Froufe E., Blackwell T., Hartikainen H. & Lopes-Lima M. (2024). High endemic freshwater mussel (Bivalvia: Unionida) diversity in western Borneo, with description of three new species. *Zoological Journal of the Linnean Society*. doi: 10.1093/zoolinnean/zlae076

- (3) Lopes-Lima M., Geist J., Egg S., Beran L., Bikashvili A., Van Bocxlaer B., Bogan A.E., Bolotov I., Chelpanovskaya O.A., Douda K., Fernandes V., Gomes-dos-Santos A., Gonçalves D., Gürlek M.E., Johnson N., Karaouzas I., Kebapci U., Kondakov A.V., Kuehn R., Lajtner J., Mumladze L., Nagel K.-O., Neubert, E., Österling M., Pfeiffer J., Prié V., Riccardi N., Sell J., Schneider L.D., Shumka S., Sirbu I., Skujienė G., Smith C., Sousa R., Stöckl K., Taskinen J., Teixeira A., Todorov M., Trichkova T., Urbanska M., Väilä S., Varandas S., Verissimo J., Vikhrev I., Woschitz G., Zajac K., Zajac T., Zanatta D., **Zieritz A.**, Zogaris S. & Froufe E. (2024). Integrative phylogenetic, phylogeographic and morphological characterisation of the *Unio crassus* species complex reveals cryptic diversity with important conservation implications. *Molecular Phylogenetics and Evolution* 4:108046. doi: 10.1016/j.ympev.2024.108046
- (4) Douda K., **Zieritz A.**, Vodáková B., Urbańska M., Marková J. & Lopes-Lima M. (2024). Review of the globally invasive freshwater mussels in the genus *Sinanodonta* Modell, 1945. *Hydrobiologia*. doi: 10.1007/s10750-023-05457-3
- (5) Aldridge D., Ollard I., Bepalaja Y., Bolotov. I., Douda K., Geist J., Haag W.R., Klunzinger M.W., Lopes-Lima M., Mlambo M.C., Riccardi N., Sousa R., Strayer D.L., Torres S.H., Vaughn C.C., Zajac T. & **Zieritz A.** (2023). Freshwater mussel conservation: a global horizon scan of emerging threats and opportunities. *Global Change Biology* 29:575–589. doi: 10.1111/gcb.16510
- (6) Sousa R., Zajac T., Halabowski D., Aksenova O., Bepalaya Y., Carvalho F., Castro P., Douda K., Silva J., Ferreira-Rodriguez N., Geist J., Gumpinger C. Labecka A., Lajtner J., Lewin I., Lopes-Lima M., Meira A., Nakamura K., Nogueira J., Ondina P., Ozgo M., Reis J., Riccardi N., Shumka S., Son M., Teixeira A., Thielen F., Urbanska M., Varandas S., Wengstrom N., Zajac K., **Zieritz A.** & Aldridge D.C. (2023). A roadmap for the conservation of freshwater mussels in Europe. *Conservation Biology* 37:e13994. doi: 10.1111/cobi.13994
- (7) Klunzinger M.W., Whisson C., **Zieritz A.**, Benson J.A., Stewart B.A. & Kirkendale L. (2022). Integrated taxonomy reveals new threatened freshwater mussels (Bivalvia: Hyriidae: *Westralunio*) from southwestern Australia. *Scientific Reports* 12:20385. doi: 10.1038/s41598-022-24767-5
- (8) **Zieritz A.**, Lee P.S., Eng W.W.H., Lim S.Y., Sing K.W., Chan W.N., Loo J.S., Mahadzir F.N., Ng T.H., Yeo D.C., Gan L.X., Gan J.Y., Gibbins C., Zoqratt M.Z.H., & Wilson J.-J. (2022). DNA metabarcoding unravels unknown diversity and distribution patterns of tropical freshwater invertebrates. *Freshwater Biology* 67:1411-1427. doi: 10.1111/fwb.13926
- (9) **Zieritz A.**, Sousa R., Aldridge D.C., Douda K., Esteves E., Ferreira-Rodriguez N., Mageroy J.H., Nizzoli D., Osterling M., Reis J., Riccardi N., Daill D., Gumpinger C. & Vaz A.S. (2022). A global synthesis of ecosystem services provided and disrupted by freshwater bivalve molluscs. *Biological Reviews* 97:1967-1998. doi: 10.1111/brv.12878
- (10) Goncalves A., **Zieritz A.**, Lopes-Lima M., Deen G. & Pfeiffer J. (2022). Taxonomic revision and conservation assessment of the Southeast Asian freshwater mussel genus *Chamberlainia* Simpson, 1900. *Journal of Molluscan Studies* 88: eyac008. doi: 10.1093/mollus/eyac008
- (11) **Zieritz A.**, Jainih L., Pfeiffer J., Rahim K.A.A., Prayogo H., Anwari S., Fikri A.H., Diba F., Taha H., Sulaiman Z., Froufe E. & Lopes-Lima, M. (2021). A new genus and two new, rare freshwater mussel (Bivalvia: Unionidae) species endemic to Borneo are threatened by ongoing habitat destruction. *Aquatic Conservation: Marine and Freshwater Environments* 31: 3169-3183. doi: 10.1002/aqc.3695
- (12) Sousa R., Halabowski D., Labecka A.M., Douda K., Aksenova O., Bepalaya Y., Bolotov I., Geist J., Jones H.A., Konopleva E., Klunzinger M.W., Lasso C., Lewin I., Liu X., Lopes-Lima M., Mageroy J., Mlambo M., Nakamura K., Nakano M., Osterling M., Pfeiffer J., Prié V., Paschoal L.R.P.P., Riccardi N., Santos R., Shumka S., Smith A.K., Son M., Teixeira A., Thielen F., Torres S., Varandas S., Vikhrev I., Wu X., **Zieritz A.** & Nogueira J. (2021). The role of anthropogenic habitats in freshwater mussel conservation. *Global Change Biology* 27:2298-2314. doi: 10.1111/gcb.15549
- (13) **Zieritz A.**, Froufe E., Bolotov I., Gonçalves D.V., Aldridge D.C., Bogan A.E., Gan H.M., Gomes-dos-Santos A., Sousa S., Teixeira A., Varandas S., Zanatta D. & Lopes-Lima M. (2021). Mitogenomic phylogeny and fossil-calibrated mutation rates for all F- and M-type mtDNA genes of the largest freshwater mussel family, the Unionidae (Bivalvia). *Zoological Journal of the Linnean Society* 193:1088–1107. doi: 10.1093/zoolinnean/zlaa153
- (14) **Zieritz A.**, Chan W.N., McGowan S. & Gibbins C. (2021). High rates of biodeposition and N-excretion indicate strong functional effects of mussels (Bivalvia: Unionida) in certain tropical freshwater habitats. *Hydrobiologia* 848:3153–3166. doi: 10.1007/s10750-020-04464-y
- (15) Jeratthitikul E., Paphatmethin S., **Zieritz A.**, Lopes-Lima M. & Ngor P.B. (2021). *Hyriopsis panhai*, a new species of freshwater mussel from Thailand (Bivalvia: Unionidae). *Raffles Bulletin of Zoology*. doi: 10.26107/RBZ-2021-0011
- (16) Lechner A.M., Gomes R.L., Rodrigues L., Ashfold M., Selvam S.B., Wong E.P., Raymond C., **Zieritz A.**, Sing K.W., Moug P., Billa L., Sagala S., Cheshmehzangi A., Lourdes K., Azhar B., Sanusi R., Tang Y.-T., Tan D., Chan F.K.S., Nath T.K., Sabarudin N.A.B., Ives C.D., Metcalfe S., Gulsrud N.M., Scheursch M., Campos-Arceiz A., Macklin M.G.

- & Gibbins C. (2020). Challenges and considerations of applying Nature-based Solutions in low- and middle-income countries in Southeast and East Asia. *Blue Green Systems IWA*. 2:331–351
- (17) **Zieritz A.**, Taha H.H., Lopes-Lima M., Pfeiffer J., Wah G.S.K., Sulaiman H.Z.B.H., McGowan S. & Rahim K.A.R. (2020). Towards the conservation of Borneo's freshwater mussels: rediscovery of the endemic *Ctenodesma borneensis* and first record of the non-native *Sinanodonta lauta*. *Biodiversity and Conservation* 29:2235–2253. doi:10.1007/s10531-020-01971-1
- (18) Lopes-Lima M., Hattori A., Kondo T., Lee J.H., Kim S.K., Shirai A., Hayashi H., Usui T., Sakuma K., Toriya T., Sunamura Y., Ishikawa H., Hoshino N., Kusano Y., Kumaki H., Tanaka A., Sao K., Sano I., Miyazaki J.-I., Gonçalves D., Klishko O., Konopleva E., Vikhrev I., Kondakov A.V., Gofarov M.Y., Bolotov I., **Zieritz A.**, Bogan A.E. & Froufe E. (2020). Freshwater mussels (Bivalvia: Unionidae) from the Rising Sun (Far East Asia): phylogeny, systematics and distribution. *Molecular Phylogenetics and Evolution* 146:106755. doi: 10.1016/j.ympev.2020.106755
- (19) Liu X., Yang X., Zanatta D., Lopes-Lima M., Bogan A.E., **Zieritz A.**, Ouyang S. & Wu X. (2020). Conservation status assessment and a new method for establishing conservation priorities for freshwater mussels (Bivalvia: Unionida) in middle and lower reaches of the Yangtze River drainage. *Aquatic Conservation*. 30: 1000-1011. doi: 10.1002/aqc.3298
- (20) Riccardi N., Froufe E., Bogan A.E., **Zieritz A.**, Teixeira A., Vanetti I., Varandas S., Zaccara S. & Lopes-Lima M. (2020). Phylogeny of European Anodontini (Bivalvia: Unionidae) with re-description of *Anodonta exulcerata* Porro 1838. *Zoological Journal of the Linnean Society*. 189:745-761. doi.org/10.1093/zoolinnean/zlzl36
- (21) Froufe E., Bolotov I., Aldridge D.C., Bogan A.E., Breton S., Gan H.M., Kovitvadhi U., Kovitvadhi S., Riccardi N., Secci-Petretto G., Sousa S., Teixeira A., Varandas S., Zanatta D., **Zieritz A.**, Fonseca M.M., Lopes-Lima M. (2020). Mesozoic mitogenome rearrangements and freshwater mussel (Bivalvia: Unionidea) macroevolution. *Heredity*. 124:182-196. doi: 10.1038/s41437-019-0242-y
- (22) **Zieritz A.**, Mahadzir F.N., Chan W.N. & McGowan S. (2019). Effects of mussels on nutrient cycling and bioseston in two contrasting tropical freshwater habitats. *Hydrobiologia*. 835:179-191. doi: 10.1007/s10750-019-3937-4
- (23) Lopes-Lima M., Burlakova L., Karatayev A., Gomes-dos-Santos A., **Zieritz A.**, Froufe E. & Bogan A.E. (2019). Revisiting the North American freshwater mussel genus *Quadrula* sensu lato (Bivalvia Unionidae): Phylogeny, taxonomy and species delineation. *Zoologica Scripta*. 48:313-336. doi: 10.1111/zsc.12344
- (24) Razak N.F.A., Supramaniam C.V. & **Zieritz A.** (2019). A dichotomous PCR-RFLP identification key for the freshwater mussels (Bivalvia: Unionida) of Peninsular Malaysia. *Conservation Genetics Resources*. 11:457-464. doi: 10.1007/s12686-018-1038-8.
- (25) Lopes-Lima M., Bogan A.E., **Zieritz A.**, Froufe E., Bolotov I., Do V.T., Fonseca M., Teixeira A., Aldridge D.C., Vikhrev I.V., Gan H.M., Gofarov M.Y., Wu X., Varandas S., Prié V., Wu R.-W., Sousa R. & Kondakov A.V. (2018). Expansion and systematics redefinition of the most threatened freshwater mussel family, the Margaritiferidae. *Molecular Phylogenetics and Evolution*. 127:98-118. doi: 10.1016/j.ympev.2018.04.041
- (26) **Zieritz A.**, Azam-Ali S., Marriott A.L., Nasir N.A.M., Ng Q.N., Razak N.F.A. & Watts M. (2018). Biochemical composition of freshwater mussels in Malaysia: A neglected nutrient source for rural communities. *Journal of Food Composition and Analysis*. 72:104-114. doi: 10.1016/j.jfca.2018.06.012
- (27) Gallardo B., Bogan A.E., Harun S., Jainih L., Lopes-Lima M., Pizarro M., Rahim K.A.R., Sousa R., Viridis S. & **Zieritz A.** (2018). Current and future effects of global change on a hotspot's freshwater diversity. *Science of the Total Environment*. 635:750–760. doi: 10.1016/j.scitotenv.2018.04.056.
- (28) Wilson J.-J., Sing K.-W., Chen P.-N. & **Zieritz A.** (2018). Tracking the Southern River Terrapin (*Batagur affinis*) through environmental DNA: Prospects and challenges. *Mitochondrial DNA Part A*. 29:862-866. doi:10.1080/24701394.2017.1373109.
- (29) **Zieritz A.**, Yasaeng P., Razak N.F.A., Hongtrakul V., Kovitvadhi U. & Kanchanaketu T. (2018). Development and evaluation of hotshot protocols for cost- and time-effective extraction of PCR-ready DNA from single freshwater mussel larvae (Bivalvia, Unionida). *Journal of Molluscan Studies*. 84: 198–201. doi: 10.1093/mollus/eyy011.
- (30) **Zieritz A.**, Bogan A.E., Froufe E., Klishko O., Kondo T., Kovitvadhi U., Kovitvadhi S., Lee J.H., Lopes-Lima M., Pfeiffer J.M., Sousa R., Tu D.V., Vikhrev I. & Zanatta D.T. (2018). Diversity, biogeography and conservation of freshwater mussels (Bivalvia: Unionida) in East and Southeast Asia. *Hydrobiologia*. 810:29-44. doi: 10.1007/s10750-017-3104-8.
- (31) **Zieritz A.**, Bogan A.E., Rahim K.A.A., Sousa R., Jainih L., Harun S., Razak N., Gallardo B., McGowan S., Hassan R. & Lopes-Lima M. (2018). Changes and drivers of freshwater mussel diversity and distribution in northern Borneo. *Biological Conservation*. 219: 126-137. doi: 10.1016/j.biocon.2018.01.012
- (32) Froufe E., Lopes-Lima M., Riccardi N., Zaccara S., Vanetti I., Lajtner J., Teixeira A., Varandas S., Prié V., **Zieritz A.**, Sousa R. & Bogan A.E. (2017). Lifting the curtain on the freshwater mussel diversity from the Italian

- Peninsula and Croatian Adriatic coast. *Biodiversity and Conservation*. 26:3255-3274. doi:10.1007/s10531-017-1403-z.
- (33) Ng T.H., Dulipat K., Foon J.K., Lopes-Lima M., **Zieritz A.** & Liew T.-S. (2017). A preliminary checklist of the freshwater snails of Sabah (Malaysian Borneo) deposited in the BORNEENSIS collection, Universiti Malaysia Sabah. *ZooKeys*. 673:105–123. doi: 10.3897/zookeys.673.12544.
- (34) Lopes-Lima M., Fonseca M., Aldridge D.C., Bogan A.E., Gan H.M., Ghamizi M., Sousa R., Teixeira A., Varandas S., Zanatta D.T., **Zieritz A.** & Froufe E. (2017). The first Margaritiferidae male (M-type) mitogenome: mitochondrial gene order as a potential character for determining higher-order phylogeny within Unionida (Bivalvia). *Journal of Molluscan Studies*. 83: 249-252. doi: 10.1093/mollus/eyx009
- (35) **Zieritz A.**, Gallardo B., Baker S., Britton J.R., van Valkenburg J.R., Verreycken H. & Aldridge D.C. (2017). Changes in pathways and vectors of biological invasions in Northwest Europe. *Biological Invasions*. 19:269–282. doi:10.1007/s10530-016-1278-z
- (36) Lopes-Lima M., Froufe E., Do V.T., Ghamizi M., Mock K.E., Kebapçı Ü., Klishko O., Kovitvadhi S., Kovitvadhi U., Paulo O.S., Pfeiffer J.M., Raley M., Riccardi N., Şereflışan H., Sousa R., Teixeira A., Varandas S., Wu X., Zanatta D.T., **Zieritz A.** & Bogan A.E. (2017). Phylogeny of the most species-rich freshwater bivalve family (Bivalvia: Unionida: Unionidae): Defining modern subfamilies and tribes. *Molecular Phylogenetics and Evolution*. 106:174-191. doi: 10.1016/j.ympev.2016.08.021
- (37) **Zieritz A.**, Lopes-Lima M., Bogan A.E., Sousa R., Walton S., Rahim K.A.A., Wilson J.-J., Ng P.-Y., Froufe E. & McGowan S. (2016). Factors driving changes in freshwater mussel (Bivalvia, Unionida) diversity and distribution in Peninsular Malaysia. *Science of the Total Environment*. 571:1069-1078. doi: 10.1016/j.scitotenv.2016.07.098.
- (38) Froufe E., Gonçalves D.V., Teixeira A., Sousa R., Varandas S., Ghamizi M., **Zieritz A.** & Lopes-Lima M. (2016). Who lives where? Molecular and morphometric analyses clarify which *Unio* species (Unionida, Mollusca) inhabit the southwestern Palearctic region. *Organisms Diversity and Evolution*. 16:597-611. doi: 10.1007/s13127-016-0262-x.
- (39) Chowdhury G. W., **Zieritz A.** & Aldridge D. C. (2016). Freshwater mussels (Bivalvia, Unionidae) enhance biodiversity and water clarity in Dhanmondi Lake, central Dhaka, Bangladesh. *Freshwater Science*. 35:188–199. doi: 10.1086/684169.
- (40) Gallardo B., **Zieritz A.**, Adriaens T., Bellard C., Boets P., Britton J.R., Newman J.R., van Valkenburg J.L.C.H. & Aldridge D.C. (2016). Trans-national horizon scanning for invasive non-native species: a case study in western Europe. *Biological Invasions*. 18: 17-30. doi: 10.1007/s10530-015-0986-0
- (41) Froufe E., Ming G.H., Lee Y.P., Carneiro J., Varandas S., Teixeira A., **Zieritz A.**, Sousa R. & Lopes-Lima M. (2016). The Male and Female complete mitochondrial genome sequences of the Endangered Freshwater Mussel *Potomida littoralis*, (Cuvier, 1798) (Bivalvia: Unionidae). *Mitochondrial DNA*. 27: 3571-3572. doi: 10.3109/19401736.2015.1074223
- (42) Gallardo B., **Zieritz A.** & Aldridge D.C. (2015). The importance of the human footprint in shaping the global distribution of terrestrial, freshwater and marine invaders. *PLOS One*. 10(5):e0125801. doi: 10.1371/journal.pone.0125801
- (43) **Zieritz A.**, Sartori A.F., Bogan A.E. & Aldridge D.C. (2015). Reconstructing the evolution of umbonal sculptures in the Unionida. *Journal of Zoological Systematics and Evolutionary Research*. 53:76-86. doi: 10.1111/jzs.12077.

BOOKS AND BOOK CHAPTERS

- (1) **Zieritz A.** & Lopes-Lima, M. (2018). *Handbook and National Red-List of the Freshwater Mussels of Malaysia*. IUCN. 29 pp. http://www.nationalredlist.org/files/2018/08/HandbookRedlistMalaysianFWMussels_Final.pdf
- (2) Aldridge D.C., Aldridge S.L., Meade A, Scales H., Smith R.K., **Zieritz A.** & Sutherland, W.J. (2015). *Control of freshwater invasive species. Global evidence for the effects of selected interventions*. The University of Cambridge, UK.

IUCN GLOBAL SPECIES CONSERVATION ASSESSMENTS

- (1) **Zieritz A.**, Rahim K.A.A. (in press). *Ctenodesma borneensis*. The IUCN Red List of Threatened Species.
- (2) **Zieritz A.**, Dimon J., Blackwell T. (in press). *Khairuloconcha sahanae*. The IUCN Red List of Threatened Species.
- (3) **Zieritz A.**, Blackwell T., Dimon J. (in press). *Khairuloconcha lunbawangorum*. The IUCN Red List of Threatened Species.
- (4) **Zieritz A.**, Bogan A.E., Pfeiffer J. & Lopes-Lima M. (2019). *Hyriopsis bialata*. The IUCN Red List of Threatened Species 2019: e.T113901500A98191135. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T113901500A98191135.en>.

(5) Zieritz A, Pfeiffer J. & Bogan A.E. (2019). *Pseudodon cumingii*. The IUCN Red List of Threatened Species 2019: e.T171880A1335293. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T171880A1335293.en>

GRANTS & RESEARCH FUNDING (PAST 10 YEARS)

2022-26	• NERC (National Environment Research Council) , NE/X00208X/1 “Developing a new co-designed decision support tool for biodiversity credits and investment”, Co-Investigator, £1,262,492
2022-25	• NERC , CASE Partnership – Ecosystem functions of tropical filter-feeders under environmental change, Principal Investigator, £3,000
2019-24	• EU COST – European Cooperation in Science & Technology , “CA18239 - Conservation of freshwater mussels: a pan-European approach (CONFREMU)”, Co-Investigator, €500,000
2023-24	• NERC , NE/X016315/1 “Co-creating and applying a theory of change for biodiversity credits - towards a nature-positive future”, Co-Investigator, £147,802
2023	• University of Nottingham International Research Collaboration Fund - Partnership Accelerator Grant “Sundaland freshwater biodiversity: knowledge exchange, horizon-scanning and road-mapping emerging challenges and opportunities”, Principal Investigator, £16,875
2023	• University of Nottingham Flexible Interdisciplinary Research Collaboration Fund “Transforming tropical freshwater conservation practice through integration of local, indigenous and scientific knowledge”, Principal Investigator, £19,239
2019-23	• National Geographic Conservation Technologies Grant , “Uncovering the lost mussel fauna of Borneo’s crocodile-infested rivers using environmental DNA”, Principal Investigator, US\$ 32,754
2022-23	• NERC Cross-disciplinary Discovery Grant , “Bottom-up from the top-down: using (e)DNA metabarcoding and remote sensing to assess the effects of lianas on forest-floor biodiversity and functioning”, Co-Investigator, £26,626
2022	• NERC , NE/W007401/1 “Assigning economic value to biodiversity: the promise and perils of biodiversity credits”, Co-Investigator, £47,225.90
2022	• NERC Discipline Hopping Grant , “Pump-priming the Nottingham River Observation Network (NRON) to enhance sustainable global freshwater resources limits”, £19,789
2020-22	• Mohamed bin Zayed Species Conservation Fund , “Towards a regional IUCN red-list of the freshwater mussels of Sumatra and Java”, Principal Investigator, US\$ 9,000
2019-22	• NERC , CASE Partnership – Blooming blanket weed: managing nuisance algae in National Trust water bodies, Principal Investigator, £4,000
2019-22	• University of Nottingham Anne McLaren Fellowship , “Tropical Freshwater Ecology and Biogeography”, Principal Investigator, £75,000
2017-18	• Rufford Small Grant . “Diversity, Distribution and Conservation Status of Brunei’s Freshwater Mussels”, Principal Investigator, £4,954
2015-17	• Ministry of Higher Education Malaysia, Fundamental Research Grant , “The role of mussels in Malaysian freshwaters: towards the protection of species and their functions”, Principal Investigator, RM 94,800.
2015-17	• Mohamed bin Zayed Species Conservation Fund , “Towards a national red-list and conservation strategy for Malaysia’s freshwater mussels (Mollusca: Unionida)”, Principal Investigator, US\$ 9,262. http://www.speciesconservation.org/case-studies-projects/freshwater-mussels/10591 .
2016	• University of Nottingham Malaysia Campus, Collaborative Grant . “Tracking the critically endangered Southern River Terrapin (<i>Batagur affinis</i>) through environmental DNA”, Principal Investigator, RM 10,000.
2015-16	• Malacological Society of London . “Assessing key functions of freshwater bivalves (Unionida) in Malaysian streams”, Principal Investigator, £1,000
2014-17	• Postdoctoral Research Fellowship by the University of Nottingham Malaysia Campus

TEACHING

I have extensive teaching experience in the UK, Malaysia, Thailand and Germany. I currently teach across all undergraduate and postgraduate years at the University of Nottingham's School of Geography, as well as a third-year School of Biosciences module. I teach various modules related to freshwater and tropical ecology, conservation, evolution and biogeography. I am teaching in a range of different settings, including large and small student groups, tutorials, seminars, field- and lab-based teaching.

I am supervising undergraduate Dissertation (~15 to date), Master (MSc/MRes; 8 to date) and PhD student (5 to date) projects, including both UK as well as overseas students (especially in Malaysia and Indonesia).

INTERNATIONAL ACADEMIC DUTIES (PAST 10 YEARS)

EDITORIAL DUTIES

Hydrobiologia. Guest Editor of Special Issue on Invasive Freshwater Molluscs.

Frontiers of Biogeography, Associate Editor.

Freshwater Mollusk Biology and Conservation, Associate Editor.

Npj Biodiversity, Editorial Board Member.

ELECTED AND INVITED ROLES

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| Since 2017 | • Invited Member of the IUCN Species Survival Commission – Mollusc Specialist Group |
| 2024 | • Scientific Committee Member of the 2nd European Freshwater Mollusk Conservation Society Meeting, 17-19 September 2024 |
| 2019-24 | • Elected lead of Working Group 2 “Ecosystem Functions” of EU-COST Project CA18239 |
| 2021 | • Scientific Committee Member of the 9th European Congress of Malacological Societies (EUROMAL 2021), 5-9 September 2021 |
| 2021 | • Invited trainer at EU-COST Training School on “Biofiltration”, September 2021, Czech University of Life Sciences Prague, Czech Republic |

INVITED TALKS AND GUEST LECTURES

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| 2023 | • Invited Keynote Speaker, <i>International Symposium on Environmental DNA for Conservation and Biomonitoring in Southeast Asia</i> , March 2023, University of Nottingham Malaysia, Kuala Lumpur |
| 2023 | • Invited Speaker during visit by Alue Dohong, Deputy Minister for Environment and Forestry of Indonesia, to the University of Nottingham |
| 2022 | • Invited Keynote Speaker, <i>World Congress of Malacology</i> , August 2022, Ludwig-Maximilians-Universität (LMU) München, Germany |
| 2022 | • Guest Lecture, CIBIO Research Centre in Biodiversity and Genetic Resources (Portugal) |
| 2022 | • Invited Speaker, <i>Southeast Asian Malacological Conference</i> , July 2022 (online event) |
| 2022 | • Invited Speaker, <i>University of Aberdeen</i> , Zoology Seminar Series, May 2022, Aberdeen, UK |
| 2022 | • Guest Lecture, Universiti Malaysia Sarawak, Malaysia |
| 2021 | • Invited Speaker, <i>LIFEConnects Conference</i> , November 2021, Lund, Sweden |
| 2019 | • Guest Lecture, Tanjungpura Universiti, Indonesia |
| 2018 | • Guest Lecture, National University Singapore |
| 2018 | • Guest Lecture, Universiti Malaysia Sabah, Malaysia |
| 2018 | • Guest Lecture, Universiti Brunei Darussalam |
| 2017 | • Guest Lecture, Universiti Malaysia Sarawak, Malaysia |

CONFERENCE AND WORKSHOP ORGANISATION

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| 2023 | • “Sundaland freshwater biodiversity conservation” workshop co-organised with Dr. Darren Yeo at the National University of Singapore . The workshop brought together 20 experts and practitioners from 15 institutions to exchange knowledge, prioritise the most |
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important challenges to tropical freshwater biodiversity in the region and develop solutions to these challenges.

- 2023 • **“Local and traditional ecological knowledge” workshop** co-organised with Prof. Chris Gibbins at **University of Nottingham Malaysia**. The workshop brought together social scientists and freshwater ecologists from 9 institutions across Malaysia, Indonesia and Brunei to exchange knowledge and co-develop guidelines for a more ethical and impactful inclusion of local/traditional ecological knowledge in freshwater conservation in the region.
- 2022 • **“Tropical eDNA workshop”** co-organised with Dr Khairul Rahim at the **Universiti Malaysia Sarawak**. The workshop aimed at providing training and knowledge exchange on eDNA and DNA metabarcoding to local researchers and practitioners in Malaysia and Indonesia. It was attended by around 60 participants from more than 20 institutions across the region, including industry partners (e.g. Sarawak Energy).
- 2016 • **IUCN Red-listing Workshop 2016**. University of Nottingham Kuala Lumpur Teaching Centre, **Malaysia**. Organiser and participant; included experts from five SE-Asian countries and resulted in re-assessment of the conservation status of 20+ freshwater mollusc species (assessments currently in peer-review).
- Symposium lead organiser “Freshwater Bivalves”, 19th **World Congress of Malacology**, Penang, Malaysia.

EXTERNAL REVIEWER/EXAMINER ROLES

- 2024 • External reviewer for Latvian Council of Science Research Grants
- 2023 • External examiner PhD thesis, University of Eastern Finland
- 2022-23 • Evaluation Committee Biodiversa+ 2022-2023 Call on “Improved transnational monitoring of biodiversity and ecosystem change for science and society” co-funded by the European Union (40M€ total value)
- 2022 • External examiner PhD thesis, Université de Lille, France
- 2022 • University of Cambridge, Selwyn College Henslow Research Fellowship
- 2021 • University of Cambridge, Magdalene College Junior Research Fellowships
- 2019 • Tony Whitten Conservation Price
- 2018 • External examiner PhD thesis, Murdoch University, Australia
- 2016 • Research Foundation Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO)