Dr Natalie Cooper

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1. RESEARCH

PUBLICATIONS

- 1. V.Deepak, **Cooper, N.**, Poyarkov, N.A., Kraus, F., Burin, G, Das, A., Snarayanan, S., Streicher, J.W., Smith, S.J., & Gower, D.J. Multilocus phylogeny, natural-history traits, and classification of natricine (Serpentes: Natricinae) snakes. Zoological Journal of the Linnaean Society. In revision.
- Alewijnse, S.R., Stowasser, G., Saunders, R.A., Belcher, A., Crimmen, O.A., Cooper, N., & Trueman, C.N. Otolith-derived field metabolic rates of myctophids (family Myctophidae) from the Scotia Sea (Southern Ocean). Marine Ecology Progress Series. In press.
- 3. V.Deepak, Maddock, S.T., Williams, R., Nagy, Z., Conradie, W., Rocha, S. Harris, D.J., Perera, A., Gvoždík, V., Doherty-Bone, T.M., Menegon, M., Labisko, J., Morel, C., **Cooper, N.**, Day, J.J. & Gower, D.J. 2020. Molecular phylogenetics of sub-Saharan African natricine snakes, and the biogeographic origins of the Seychelles endemic *Lycognathophis seychellensis*. Molecular Phylogenetics and Evolution. **161**, 107152.
- Mezzasalma, M., Guarino, F.M., Loader, S., Odierna, G., Streicher, J.W., & Cooper, N. 2020. First karyological analysis of the endemic Malagasy phantom gecko *Matoatoa brevipes* (Squamata: Gekkonidae). Acta Herpetologica. 15, 137-141.
- Buckingham, E., Curry, J., Emogor, C., Tomsett L. & Cooper, N. 2021. Using natural history collections to investigate changes in pangolin (Pholidota: Manidae) geographic ranges through time. PeerJ. 9, e10843 http://doi.org/10.7717/peerj.10843.
- 6. Bonsor, J.A., Barrett, P.M., Raven, T.J., & **Cooper**, **N.** Dinosaur evolutionary rates were not in decline prior to the K-Pg boundary. Royal Society Open Science. **7**, 201195. http://dx.doi.org/10.1098/rsos.201195.
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- P.C.J. 2020. Disparities in the analysis of morphological disparity. Biology Letters. **20200199**. DOI: 10.1098/rsbl.2020.0199.
- 8. Martins, M.C.I, Park, T., Racicot, R. & **Cooper, N**. 2020. Intraspecific variation in the cochleae of harbour porpoises (*Phocoena phocoena*). PeerJ. **8**, e8916 DOI: 10.7717/peerj.8916.
- 9. Jones, M.E.H, Pistevos, J.C.A, **Cooper, N.**, Lappin, A.K., Georges, A., Hutchinson, M.N., & Holleley, C.E. 2020. Reproductive phenotype predicts adult bite-force performance in sex-reversed dragons (*Pogona vitticeps*). Journal of Experimental Zoology. 333, 252-263. DOI: 10.1002/jez.2353.
- Cooper, N., Bond, A.L., Davis, J.L., Portela Miguez, R., Tomsett, L., & Helgen K.M. Sex biases in natural history collections of birds and mammals. 2019. Proceedings of the Royal Society B: Biological Sciences. 286, 20192025. DOI: 10.1098/rspb.2019.2025.
- 11. Park, T., Mennecart, B., Costeur, L., Grohe, C. & **Cooper, N.** 2019. Convergent evolution in toothed whale cochleae. BMC Evolutionary Biology. **19**, 195. DOI: 10.1186/s12862-019-1525-x.
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- 13. Coombs, E.J., Deaville, R., Sabin, R.C., Allan, L., O'Connell, M., Berrow, S. Smith, B., Brownlow, A., Ten Doeschate, M., Penrose, R., Williams, R., Perkins, M.W., Jepson, P.D., & Cooper, N. 2019. What can cetacean stranding records tell us? A study of UK and Irish cetacean diversity over the past 100 years. Marine Mammal Science. 35, 1527-1555. DOI: 10.1111/mms.12610.
- Verde Arregoitia, L.D., Cooper, N., & D'Elia, G. 2018. Good practices for sharing analysis-ready data in mammalogy and biodiversity research. Hystrix, the Italian Journal of Mammalogy. 29, 155-161. DOI: 10.4404/hystrix-00133-2018.
- 15. Guillerme, T. & **Cooper, N.** 2018. Time for a rethink: time sub-sampling methods in disparity-through-time analyses. Palaeontology. **61**, 481-493. DOI: 10.1111/pala.12364.
- 16. Page, C.E. & **Cooper**, **N.** 2017. Morphological convergence in 'river dolphin' skulls. PeerJ. **5**, e4090. DOI: peerj.com/articles/4090.
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- 18. Guillerme, T. & **Cooper**, **N.** 2016. Assessment of available anatomical characters for linking living mammals to fossil taxa in phylogenetic analyses. Biology Letters. **12**, 20151003. doi: 10.1098/rsbl.2015.1003.

- 19. Guillerme, T. & **Cooper, N.** 2016. Effects of missing data on topological inference using a Total Evidence approach. Molecular Phylogenetics and Evolution. **94**, 146158. doi: 10.1016/j.ympev.2015.08.023.
- 20. **Cooper, N.**, Thomas, G.H., Venditti, C., Meade, A. & Freckleton, R.P. 2016. A cautionary note on the use of Ornstein Uhlenbeck models in macroevolutionary studies. Biological Journal of the Linnaean Society. **118**, 64-77. doi: 10.1111/bij.12701.
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- 22. Kelly, S.B.A, Kelly, D.J., **Cooper, N.**, Bahrun, A., Analuddin, K. & Marples, N. 2014. Molecular and phenotypic data reveal a cryptic species (Aves: Dicaeum) from the unique and understudied Sulawesi region. PLoS ONE. **9**, e98694. doi: 10.1371/journal.pone.0098694.
- 23. **Cooper**, **N**., & Nunn, C.L. 2013. Identifying future zoonotic disease threats: Where are the gaps in our understanding of primate infectious diseases? Evolution, Medicine and Public Health. **2013**, 26-37. doi: 10.1093/emph/eot001.
- 24. Kamilar, J.M. & Cooper, N. 2013. Phylogenetic signal in primate behaviour, ecology, and life history. Philosophical Transactions of the Royal Society of London Series B: Biological Sciences. 368, 20120341. doi: 10.1098/rstb.2012.0341.
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- 36. Bielby, J., Cardillo, M. **Cooper, N.** & Purvis, A. 2009. Modeling extinction risk in multispecies data sets: phylogenetically independent contrasts versus decision trees. Biodiversity and Conservation. 19, 113-127. doi: 10.1007/s10531-009-9709.0.
- 37. **Cooper, N.**, Rodriguez, J. & Purvis, A. 2008. A common tendency for phylogenetic overdis- persion in mammalian assemblages. Proceedings of the Royal Society of London Series B: Biological Sciences. 275, 2031-2037. doi: 10.1098/rspb.2008.0420.
- 38. Cooper, N., Bielby, J., Thomas, G.H. & Purvis, A. 2008. Macroecology and extinction risk correlates of frogs. Global Ecology and Biogeography. 17, 211-221. doi: 10.1111/j.1466-8238.2007.00355.x.
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- 40. Bielby, J., **Cooper, N.**, Cunningham, A., Garner, T. & Purvis, A. 2008. Predicting susceptibility to future declines in the world's frogs. Conservation Letters. 1, 82-90. doi: 10.1111/j.1755- 263X.2008.00015.x.

2. GRANTS

Below are all grants I have applied for since 2015. Total income £3,382,547; value to NHM £1,565,368; where I am Pl/major Co-I £976,849.

			JNDER 30k				
Dates	Awarding body and type of grant	Project title	Total value	Value to NHM	Role	Collaborators	Funded?
2018	Royal Society International Scientific Seminar Grant	Reconciling disparate perspectives on the evolution of disparity	£5000	93	Co-I	Thomas Guillerme (University of Queensland) Phil Donoghue (University of Bristol)	YES
2015 - 2016	British Ecological Society. Small Research Grant	A Whale of a Time: how have changing human pressures through time affected the ecology of rorqual whales?	£5000 £5000 PI (no staff costs /		Clive Trueman (University of Southampton) Andrew Jackson (Trinity College Dublin)	YES	
		3	0K TO 100	K			
2017 - 2018	BBSRC STARS Training Course Grant	Advancing computational and data literacy skills schools for Life Scientists	£42,738	£25,292	PI	Karthik Ram (University of Berkeley)	YES
	1	MO	RE THAN 1	00K	1		•
2021 - 2023	Marie Skłodowska -Curie Individual Fellowship to IB	EARtH: Exploring the Australian Reptile Hypervolume: Assembly and evolution of a continental fauna	€224,934	NA	Host	Ian Brennan	YES
2021 - 2023	Marie Skłodowska -Curie Individual Fellowship to LDA	CONVERS: Convergent evolution in rodents and other small mammals.	€212,934	NA	Host	Luis Darcy Verde Arregoitia	NO
2020 -	NERC Standard Grant	Unshifting the baseline: inferring global patterns of pre-	£572,278	NA	PI	Jeffrey Streicher Andy Purvis	NO (scored

2023		Anthropocene vertebrate diversity v2.					8/10)
2020 - 2023	Leverhulme Research Project Grant pre-proposal	Constraining past biodiversity patterns through simulations in time and space.	£259,499	NA	Co-I	Phil Mannion (UCL) Erin Saupe (University of Oxford)	NO
2020 - 2023	Leverhulme Research Project Grant	Back to the water: macroevolutionary dynamics of secondarily aquatic tetrapods.	£337,468	£337,468 (no core staff costs included)	PI	Graham Slater (University of Chicago) Erich Fitzgerald (Museums Victoria) Travis Park (named PDRA)	YES
2019 - 2022	NERC Standard Grant	MacroCovar: The macroevolutionary consequences of trait correlations v2.	£586,643	£146,000	Co-I	Gavin Thomas (PI) (University of Sheffield) Andrew Beckerman (University of Sheffield)	YES
2019 - 2022	NERC Standard Grant	Unshifting the baseline: inferring global patterns of pre-Anthropocence vertebrate diversity.	£572,278	NA	PI	Jeffrey Streicher Andy Purvis	NO (scored 8/10)
2019 - 2022	NERC Standard Grant	Assessing sponge reproductive biology in warming oceans: molecular toolkits for sex determination and adaptation.	£739,662	NA	Co-I	Ana Riesgo Gil (PI) Jordi Paps (University of Bristol) Jordi Solana (Oxford Brookes University) Alison Wright (University of Sheffield)	NO (scored 7/10)
2019 - 2021	Royal Commission of 1851 Research Fellowship to TP	ECHO part 2: Evolution of the Cochlea and Hearing in Odontocetes	£129,000	NA	Host	Travis Park	NO
2019 - 2021	Marie Skłodowska -Curie Individual Fellowship to JC	FISHDIV: Testing major controls on the evolution of morphological diversity in fish.	€163,454	NA	Host	John Clarke	NO

2018	NERC	MacroCovar: The	£586,643	NA	Co-I	Gavin Thomas (PI)	NO
-	Standard Grant	macroevolutionary				(University of Sheffield)	(scored
2021		consequences of trait				Andrew Beckerman	6/10)
		correlations.				(University of Sheffield)	•
2018	H2020-	iBioGen: Twinning for	€999,320	€226,987	Parti	Alfried Vogler (PI)	YES
-	WIDESPREAD	European excellence in Island			cipa	+ many others	
2021	grant	Biodiversity Genomics			nt		
2018	Marie Skłodowska	CHROMREP: An integrative	€183,454	€183,454	Host	Marcello Mezzasalma	YES
-	-Curie Individual	approach linking chromosomal				Jeffrey Streicher	
2020	Fellowship to MM	evolution and biodiversity in				Simon Loader	
		reptiles from Madagascar					
2018	Royal Commission	Testing major controls on the	£127,000	NA	Host	John Clarke	NO
-	of 1851 Research	evolution of morphological					
2020	Fellowship to JC	diversity					
2017	Marie Skłodowska	ECHO: Evolution of the	€195,454	€195,454	Host	Travis Park	YES
-	-Curie Individual	Cochlea and Hearing in					
2019	Fellowship to TP	Odontocetes					
2017	Marie Skłodowska	NATRICINE: Phenotypic and	€183,000	€183,000	Co-	Deepak Veerappan	YES
-	-Curie Individual	lineage diversification of			host	David Gower (Main host)	
2019	Fellowship to VD	natricine snakes					
2017	NERC	Reef refugia out of the	£614,919	£8,052	Co-I	Ken Johnson (PI)	YES
-	Standard Grant	shadows: dynamics of		(value of		Nadia Santadomingo	
2020		marginal coral reef		my time		(named PDRA)	
		ecosystems over the past 30		as a Co-I)			
		million years in the Coral					
		Triangle v2.					
2016	Leverhulme	Molecules meet fossils - an	£350,090	£350,090	Co-I	Andrea Waeschenbach (PI)	YES
-	Research Project	integrated approach to		(no core		Paul Taylor	
2020	Grant	studying marine		staff costs		Lee Hsiang Liow	
		palaeodiversity.		included)		(University of Oslo)	
2016	NERC	Reef refugia out of the	£614,919	NA	Co-I	Dr Ken Johnson (PI).	NO

-	Standard Grant	shadows: dynamics of				Dr Nadia Santadomingo	
2019		marginal coral reef				(named PDRA)	
		ecosystems over the past 30					
		million years in the Coral					
		Triangle.					
2016	Royal Commission	Ears and Echoes: Cochlear	£129,000	NA	Host	Travis Park	NO
-	of 1851 Research	evolution in toothed whales.					
2018	Fellowship to TP						
2016	ERC	Convergent evolution across	€1,499,	NA	PI	NA	NO
- 2021	Starting Grant	species, space, traits and time.	787				

3. TALKS TO SCIENTIFIC AUDIENCES

INVITED TALKS AT CONFERENCES

2020

WISE: Women in Science Ecology meeting. Online.

My experiences as a woman in ecology.

2019

American Ornithological Society annual meeting, Anchorage, Alaska, USA. Sex biases in natural history collections of birds.

2018

Chilean Society for Evolution annual meeting, Puerto Varas, Chile. *Convergent evolution and echolocation.*

2017

Palaeontological Association annual meeting, London, UK. *Time for a rethink - time slicing approaches to disparity-through-time.*

2015

Methods in Ecology & Evolution 5th anniversary symposium, London, UK. *The limitations of PCMs.*

2014

Linnaean Society Radiations & Extinctions meeting, London, UK. *Reproducibility in macroevolution.*

INVITED SEMINARS

2019	University of York, UK.
	University of Nottingham, UK.
2018	University of Durham, UK.
2017	University of Bangor, Wales, UK.
2016	Tel Aviv University and Israeli National Natural History Museum, Israel.
	Edward Grey Institute for Ornithology, University of Oxford, UK.
	CMEC (Centre for Macroecology Evolution & Climate), University of
	Copenhagen, Denmark.
2015	University of Lausanne, Switzerland.
	Dublin City University, Dublin, Ireland.
2014	Swansea University, Wales, UK.
	University of Exeter, UK.
	Queens University, Belfast, UK.
	University College Dublin, Ireland.
2013	University of Southampton, UK.
	University of Sheffield, UK.
	University of Liverpool, UK.
	University of Chicago, IL, USA.

Trinity College Dublin, Ireland. University of Southampton, UK.

2011 Harvard University, MA, USA.

INVITED KEYNOTES AT EARLY CAREER EVENTS

2018

School of Natural Sciences Postgraduate Symposium plenary speaker. *Trinity College Dublin, Dublin, Ireland.*

2015

LERN: London Evolutionary Research Network, UK.

BLAM: Biology at Lund Annual Postgraduate Symposium plenary speaker.

Lund University, Lund, Sweden.

CONFERENCE PRESENTATIONS AND POSTERS

2018	BES Annual Meeting, Birmingham, UK. TALK.
2017	Sex biases in natural history collections Joint BES and SfE Annual Meeting, Ghent, Belgium. POSTER.
2017	Reconstructing the last known movements of one of Nature's giants
2016	Evolution, Austin, TX, USA. <i>POSTER</i> .
	Skeletons in the closet: using NHM collections for evolutionary research
2014	Evolution, Raleigh, NC, USA. SYMPOSIUM TALK.
	The "Dark Side" of phylogenetic comparative methods
2013	ESEB, Lisbon, Portugal. POSTER.
	Ecological correlates of extrinsic mortality in mammals and birds
	Evolution, Snowbird, UT, USA. TALK.
	Ecological correlates of extrinsic mortality in mammals and birds
2012	Evolution, Ottawa, Canada. TALK.
	Host phylospecificity and parasite sharing in primates and humans
2011	EEID, Santa Barbara, CA, USA. POSTER.
	Methods for detecting phylogenetic host specificity in parasites
2010	Evolution, Portland, OR, USA. TALK.
	Phylogenetic niche conservatism in mammals
2008	Evolution, Minneapolis, MN, USA. TALK.
	A common pattern of overdispersion in mammalian assemblages

4. EDUCATION

STUDENT SUPERVISION

Below I have listed all students I have supervised since starting at the Museum in 2015.

PhD students

For each student I have listed their start and (expected) end dates, project titles, the DTP funding the project, the university involved, and their main supervisor where this was not me. Note that I co-supervise all of my current PhD students, but I am heavily involved in discussing their progress, editing drafts, training them in R, and providing pastoral care where their main supervisors are unavailable.

Name	Dates	Project title	DTP	University	Main
					supervisor
Louie	2019	Trait correlations:	ACCE	Sheffield	Dr Gavin
Rombaut	-	linking micro- and			Thomas
	2023	macro- evolutionary			
		patterns			
Tom	2018	Disparity and	GW4+	Bath	Prof
Trapman	-	complex-			Matthew
	2022	ity in arthropods			Wills*
Sarah	2017	Field metabolic rate	SPITFIRE	Southampto	Dr Clive
Alewijnse	-	in fishes using		n	Trueman
	2022¶	otoliths			
Ellen	2016	Cetacean responses	London	UCL	Prof Anjali
Coombs	-	to climate change:			Goswami
	2020	past, present and			
		future			
Thomas	2012	Macroevolution with	NA	Trinity	NA
Guillerme	-	fossils and living		College	
	2015	species.		Dublin	

^{*}Tom Trapman is technically primarily supervised by Matthew Wills at Bath, but due to some issues there he is now permanently based in my group at NHM.

[¶] For medical and personal reasons Sarah has taken a couple of suspensions of studies but is on target to complete in 2022.

Masters students

For each student I have listed the year they handed in their project, project titles, the course they were on, the length of the project, the university involved, and co-supervisors. I was primary supervisor for the majority of these students; where I was not the main supervisor's name is in bold.

Name	Year	Project title	Course	Project length	Host	Co-supervisor
Tara Wainwright	2021	Sex biases in herpetology collections worldwide	MSc Evolution, Taxonomy & Biodiversity	4.5 months	ICL	-
Noah Hearne	2021	Geographical biases in NHM collections; investigating the imprint of colonialism.	MSc Evolution, Taxonomy & Biodiversity	4.5 months	ICL	-
Christian Ching	2021	Exploring cryptic diversity in colugos	MSci Zoology	9 months	RVC	Roberto Portela Miguez
Lucy Ball	2021	Limb proportions and locomotion in miniature frogs	MSci Biological Sciences	9 months	UCL	-
Morwenna Trevenna	2020	Sex biases in herpetology museum collections.	MSc Evolution, Taxonomy & Biodiversity	4.5 months	ICL	-
Justin Isip*	2020	A comparative study of bite force in reptiles	MSc Evolution, Taxonomy & Biodiversity	4.5 months	ICL	Marc Jones (UCL)
Hermione Blomfield- Smith	2020	Methods for investigating extinction risk in chameleons.	MSc Evolution, Taxonomy & Biodiversity	4.5 months	ICL	Marcello Mezzasalma
Rebecca Bentley	2020	Diversity of catfishes.	MRes Biosystematics	3.5 months	ICL	-
Shizhe Ma	2020	Correlates of extinction risk in chameleons.	MRes Biosystematics	3.5 months	ICL	-
Mengdi Li*	2020	Amphibian type specimen localities and IUCN ranges.	MSci Biological Sciences	9 months	UCL	Jeff Streicher
Maria Iruzun Martins*	2019	Intraspecific variation in harbour porpoise cochleae.	MRes Biodiversity, Evolution & Conservation	5 months	UCL	Travis Park
Jake Curry*	2019	Computational approaches for studying	MRes Computational	9	ICL	Jeff Streicher

		species distributions through time.	Methods in Ecology &	months		
			Evolution			
Emily	2019	Protecting pangolins using museum specimen	MRes Biosystematics	3.5	ICL	Louise Tomsett
Buckingham*		locality data.		months		
Steven	2018	Changes in Asian amphibian distributions	MRes Ecology, Evolution	5	ICL	Jeff Streicher
Allain*		through time.	& Conservation	months		
Tama Maaka*	0010	Mismatches in East African amphibian ture	MCsi Dialogical Caianasa	9	UCL	loff Chroinban
Tom Weeks*	2018	Mismatches in East African amphibian type	MSci Biological Sciences	_	UCL	Jeff Streicher
Na a mai	0010	localities and current distributions.	MD as Diadirensite	months 5	1101	leff Otresials are
Naomi	2018	South American amphibian type distributions	MRes Biodiversity,	_	UCL	Jeff Streicher
Berkowitz*	0010	and IUCN Red List maps.	Evolution & Conservation	months	101	1 ((0) 1 1
Alice Pawlik*	2018	Salamander type specimen localities and	MRes Ecology, Evolution	5	ICL	Jeff Streicher
		current distributions.	& Conservation	months		
Joseph	2017	Were dinosaurs in decline before K-Pg?	MSc Evolution,	4.5	ICL	Paul Barrett
Bonsor*			Taxonomy & Biodiversity	months		
Wui Shen	2017	Convergence in afrotherian and laurasiatherian	MSc Evolution,	4.5	ICL	Louise Tomsett
Ng*		"insectivores".	Taxonomy & Biodiversity	months		
Olivia Morris	2017	Biogeographic origins of Galapagos reptiles.	MSc Ecology, Evolution	4.5	ICL	-
			& Conservation	months		
Danielle	2017	Geometric morphometrics of ornithischian	MSc Ecology, Evolution	4.5	ICL	Paul Barrett
Moraviec		dinosaurs.	& Conservation	months		
Charlotte	2017	Convergence in "river dolphins".	MSci Biological Sciences	9	UCL	Richard Sabin
Page*		·		months		
Jack Davies*	2017	Amphibian type distributions and IUCN Red	MRes Biodiversity,	4.5	UCL	Jeff Streicher
		List maps.	Evolution & Conservation	months		
Andrea	2017	Marsupial type distributions and IUCN Red List	MRes Biodiversity,	4.5	UCL	Roberto Portela
Sartorius*		maps.	Evolution & Conservation	months		Miguez
Dan Bell	2016	Predicting cetacean length from skull	MRes Ecology, Evolution	5	ICL	Richard Sabin
		measurements	& Conservation	months		
Guillermo	2016	Biogeographic origins of Galapagos mammals	MRes Ecology, Evolution	5	ICL	-

Gilbert	and birds.	& Conservation	months	

^{*}Work done by these students has contributed to publications on which the students are authors. See publications list, plus three in prep; one on convergence in insectivores, one on georeferencing amphibian type collections, one on bite force in lepidosaurs.

MASTERS COURSE TEACHING

I teach on both taught Masters courses at NHM, and many Masters students also attend my annual R course. In 2020-21 these courses will be run remotely so timings will differ.

Masters course	Years	Topic	Classes	Total annual
				hours
MRes Biodiversity,	2016	Using phylogenies to	1 x 3 hours	3 hours
Evolution &	-	ask evolutionary	plus	
Conservation	present	questions.	assessment	
MSc Evolution,	2016	Methods in	7 x 3 hours	21 hours
Taxonomy &	-	macroecology and	plus	
Biodiversity	present	macroevolution	assessment	

POST-DOC TRAINING

I have hosted or co-hosted three Marie Skłodowska-Curie postdocs during the last five years, and co-supervise a postdoc on a NERC grant who is based in Sheffield, plus two postdocs on a Leverhulme grant. Details are in the table below, with the main host/supervisor in bold where this was not me. I continue to work with the two postdocs who have finished their grants. I also informally train many postdocs during my annual R course and my *Methods in macroecology and macroevolution* course.

Name	Dates	Project title	Funding	Location	Supervis or/host
Dr Travis Park	Aug 2020	Back to the water: macroevolutionary	Leverhulme	NHM	Dr Erich Fitzgerald
Dr Gustavo	-	dynamics of			Dr
Burin	2023	secondarily aquatic tetrapods			Graham Slater
Dr Thomas	2020	MacroCovar: Trait	NERC	University	Dr Gavin
Guillerme	-	correlations: linking		of	Thomas
	2023	micro- and macro-		Sheffield	Prof
		evolutionary patterns			Andrew
					Beckerma n
Dr Marcello	2018	CHROMREP: An	MSCA	NHM	Dr Simon
Mezzasalma	-	integrative approach			Loader
	2020	linking chromosomal			Dr Jeff
		evolution and			Streicher
		biodiversity in			
		reptiles from			
D. D l.	0047	Madagascar	14004	N 11 1N 4	Do Donid
Dr Deepak	2017	NATRICINE:	MSCA	NHM	Dr David
Veerappan	2019	Phenotypic and			Gower
	2019	lineage diversification of			
		natricine snakes			
Dr Travis	2017	ECHO: Evolution of	MSCA	NHM	-
Park	-	Cochlea & Hearing			

0010	in Odontoootoo		
2019	in Odontocetes		

OTHER TERTIARY LEVEL TEACHING

The following courses were open to PhD students, postdocs and in the case of the R training, Museum staff (from 2018). Over 200 Museum staff and students have taken my introductory R course. I also offer informal mentoring and advice to at least four or five students/postdocs a year looking for advice on CVs, jobs and grant writing.

Course	Years	Total hours
Intro to R, basic statistics and reproducible	2016	3 days annually
research tools (Git, GitHub, RMarkdown etc.).	-	(6 hours each day).
	present	Sole teacher.
		~ 60 students a year
BBSRC STARS "Advancing computational and	2017	Two 5 day courses
data literacy skills schools for Life Scientists"	&	(8 hours each day).
	2018	Two co-teachers.
BES and Methods in Ecology and Evolution "Best	2016	1 day (8 hours).
Practice for Code Archiving" workshop		4 co-teachers.

5. OUTREACH

NHM OUTREACH

I have been extensively involved with outreach over the last five years, and have a good relationship with many members of the Public Engagement team. I get excellent public feedback from my events. In addition to the NHM events I have taken part in, I also helped comedian Helen Arney develop content for the Emerge festival, gave PEG staff tours of osteology to help with plans for future NHM Live and Curious Science events, consulted with the Fantastic Beasts and Whales exhibition teams, and have contributed to discussions about the Gallery Enhancement Project refurbishment of the Mammal Hall.

Year	NHM event	Type of NHM event
2021	WPY (Wildlife Photographer of	WPY 57
	the Year) judge	
	Period drama: Do animals have	Nature Live online
	periods?	
	The ins and outs of vaginas	Nature Live online
	Arctic camels	Surprising Science video
2020	Screaming goats	Surprising Science video
	Spooky animal screams	Surprising Science video
	Living in groups	Lates online panel discussion
	Unlikely animal friends	Surprising Science video
	Hope and the wonderful world of whales	Nature Live online
	Conception and deception: the weird world of animal sex	Valentine's Day Event
	Storytelling	Women in Science Lates
2019	Drones in conservation and TV	Nature Live. BBC 7 Worlds One Planet Lates
	Asia Science Stand	BBC 7 Worlds One Planet Lates
	Ask the Scientist.	Tour and Evolve magazine article
	Vertebrates Science Stand	European Researchers' Night
	Hyaenas	Surprising Science video
2018	Everything you ever wanted to know about mammal and bird penises and more!	Dinosnores for Grownups
	Vertebrates Science Stand	European Researchers' Night
	Green Seas Science Stand	Blue Planet II Lates
	NHM Research Highlights for Hong Kong student prize winners.	Nature Live
2017	Everything you ever wanted to know about mammal and bird penises and more!	Dinosnores for Grownups
	Hope the blue whale	Nature Live
	Marine Vertebrates Science Stand	Science Uncovered
	Hope the blue whale	Nature Live. Science Uncovered

	EU pub	Science Uncovered
	Whale hall tours.	Members' Summer Party
	Wonderful world of whales!	Dinosnores for Kids
	Giraffes	Audio recording for new giraffe
		WonderBay in Hintze Hall.
	Survival in the Snow	Dinosnores for Kids.
2016	Survival in the Snow	Dinosnores for Kids.
	EU pub	Science Uncovered
	Leading Ladies tour	Pride Lates
	Everything you ever wanted to	Dinosnores for Grownups
	know about mammal and bird	
	penises and more!	
2015	Science Cafe	Science Uncovered

OUTREACH BEYOND NHM

I have actively engaged with Media, Digital and Website teams to promote my research and activities. My recent (2019) paper on sex biases in museum collections received extensive press coverage including in the Guardian, Daily Mail, Economist (magazine and podcast), CNN online, Russia 24 (TV interview), NewsTalk Ireland (radio interview), BBC Three Counties Drive Time show (radio interview), multiple blogs and websites from countries including France, Ireland, Sweden, and China.

I am also an active Twitter user (@nhcooper123) with over 3,700 followers.

PUBLIC TALKS

Year	External outreach event	Location
2019	Royal Society of Biology, West Midlands	Aston University, Birmingham
	branch Charter Lecture	
2018	New Scientist Live! Hope the blue whale	ExCel centre, London

8. LEARNED SOCIETIES, GOVERNMENT, FUNDING BODIES, EXTERNAL AGENCIES ETC.

PROFESSIONAL SERVICE

My main external roles are as follows.

- 1. I am an Editor at the journal Methods in Ecology and Evolution. I handle between 10 and 30 papers a year, and I also contribute to developing journal policies and promoting the journal at external events. Additionally, I was the Deputy Chair of the British Ecological Society (BES) Publications committee, which manages journal policies and improvements on the six journals of the BES (Journal of Animal Ecology, Journal of Applied Ecology, Journal of Ecology, Functional Ecology, Methods in Ecology and Evolution, and People and Nature) until 2021.
- 2. I am Chair of the BES Macroecology special interest group (SIG). Before becoming Chair I was Deputy Chair for three years. In this role I coordinate events, including an annual meeting attended by over 100 people, workshops, social events at the main BES conference, and early career researcher training. I am responsible for budgets, reporting, planning and communication. The SIG has several thousand members, and over 4,700 followers on Twitter.

Date	Role	
2021	PhD External Examiner, Yichen He, University of Sheffield.	
2020	PhD External Examiner, Lewis Jones, Imperial College	
	London.	
2019 - 2021	Deputy Chair of BES Publications Committee.	
2017 - present	Chair of BES Macroecology Special Interest Group	
	committee.	
2015 - present	Associate Editor at Methods in Ecology & Evolution.	
2012 - present	Member of BES including Macroecology SIG.	
2016	Member of Methods in Ecology & Evolution code archiving	
	strategy group.	
2015 - 2019	Ordinary Member of BES Publications Committee.	
2015 - 2017	Deputy Chair of BES Macroecology Special Interest Group	
	committee.	
2015	PhD External Examiner, Kevin Arbuckle, University of	
	Liverpool.	
	Conference organisation	
2021	Organiser of BES Macroecology SIG annual meeting,	
	ONLINE (Zoom). Three day event.	
2020	Organiser of BES Macroecology SIG ECR Twitter event,	
	ONLINE (Twitter). One day event.	
2017	Organiser of BES Macroecology SIG annual meeting, NHM,	
	London. Three day event.	
2017	Organiser of BES Macroecology SIG Early Career Mentoring	
	event, Charles Darwin House, London. One day event.	
2016	Organiser of BES Macroecology SIG annual meeting,	
	University of Oxford. Two day event.	

2016	Organiser of London Vertebrate Researchers Meeting, UCL,
	London. One day event.

REVIEWING

I review standard grants for NERC, CSERC (Canada), and FONDECYT (Chile). I also review Systematics Association small grants.

I have reviewed papers for The American Naturalist, Animal Conservation, Biological Reviews, BMC Evolutionary Biology, Conservation Biology, Current Biology, Ecography, Ecology, Ecology and Evolution, Ecology Letters, Evolution, Global Ecology & Biogeography, International Journal of Primatology, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Biogeography, Journal of Evolutionary Biology, Methods in Ecology & Evolution, Nature Communications, Nature Ecology & Evolution, Oecologia, PeerJ, Philosophical Transactions of the Royal Society: B, PLoS One, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society: B, Proceedings of the Royal Society: Interface, Trends in Ecology & Evolution.