

# Ana Nuno

Centre for Ecology and Conservation, University of Exeter, Penryn Campus, Cornwall, TR10 9FE, UK

**PHONE** (+44) 0756 4011550 • **E-MAIL** a.m.g.nuno@exeter.ac.uk • **WEBSITE** ananuno.net • **TWITTER** @Ana\_\_Nuno

## QUALIFICATIONS

<b>PhD Conservation Science</b> Imperial College London, UK	Oct 09 - Sept 13
<b>MRes Biodiversity &amp; Conservation</b> University of Leeds, UK	Oct 06 - Sept 07
<b>BSc (Applied Animal) Biology</b> University of Porto, Portugal	Sept 01 - Jul 05

## EMPLOYMENT

<b>Research Fellow</b> University of Exeter, UK	May 16 - present
<b>Associate Research Fellow</b> University of Exeter, UK	Jun 14 – Apr 16
<b>Visiting Fellow</b> Centre of Excellence for Environmental Decisions, Australia	Mar - May 14
<b>Conservation Science MSc tutor and administrator</b> Imperial College London, UK	Oct 10 - Mar 13
<b>Project manager and fundraiser</b> GAIA Alentejo (NGO), Portugal	May 08 - Apr 09

## GRANTS

<b>Africa's Eden</b> Marine biodiversity assessment through baited underwater camera monitoring and maturity assessment of selected demersal fish species <b>€35,705</b>	2018
<b>Halpin Trust</b> Baited underwater camera biodiversity monitoring <b>£6,600</b>	2017
<b>Bertarelli Foundation</b> Science for management of the BIOT Marine Reserve: socio-economics of illegal, unreported and unregulated fisheries <b>£118,734</b>	2017
<b>Gift from donor (Dominic Scriven)</b> Operationalizing ecosystem services in business: a global analysis of implementation, challenges and opportunities <b>£112,090</b>	2016

<b>Defra Darwin Initiative</b>	2016
Improving marine biodiversity and livelihoods of coastal communities in Principe <b>£295,187</b>	
<b>Principe Trust Foundation</b>	2015
Scoping visit to identifying marine conservation priorities in São Tomé and Príncipe <b>£12,000</b> .	
<b>Centre of Excellence for Environmental Decisions, Australia</b>	2014
Early career researcher visiting fellowship <b>\$AUD 15,000</b>	
<b>Foundation for Science and Technology, Portugal</b>	2009 - 2013
PhD scholarship <b>€ 90,000</b>	
<b>EU's Youth in Action programme</b>	
Multiple international and national projects in environment and sustainable development <b>€ 50,000</b>	2008 - 2009
<b>EU's Leonardo da Vinci programme</b>	2005 - 2006
International internship <b>€3,000</b>	

## PUBLICATIONS

Silk M, Woodhead A, Crowley S, **Nuno A** (in press) Considering connections between Hollywood and biodiversity conservation. *Conservation Biology*

Henriques M, Granadeiro JP, Monteiro Hamilton, **Nuno A**, Lecoq M, Cardoso P, Regalla A, Catry P (2018) Not in wilderness: African vulture strongholds remain in areas with high human density. *PLOS ONE* [doi.org/10.1371/journal.pone.0190594](https://doi.org/10.1371/journal.pone.0190594)

**Nuno A**, Blumenthal J, Austin T, Bothwell J, Ebanks-Petrie G, Godley B, Broderick A (2018) Understanding consumer behaviour and wildlife farming implications for sustainable wildlife trade. *Conservation Biology* 32: 390-400.

Duncan E, Botterell Z, Broderick A, Galloway T, Lindeque P, **Nuno A**, Godley B (2017) A global review of marine turtle entanglement in anthropogenic debris: a baseline for further action. *Endangered Species Research* 34: 431-448.

Hinsley A, **Nuno A**, Ridout M, St John F, Roberts D (2017) Estimating the extent of CITES non-compliance amongst end-consumers in the global orchid trade. *Conservation Letters* 10: 602-609.

Madeira Hancock J, Godley B, Furtado S, Merino S, **Nuno A** (2017) Exploring drivers and deterrents of the illegal consumption and trade of marine turtle products in Cape Verde, and implications for conservation planning. *Oryx* 51: 428-436.

St John F, Brockington D, Bunnefeld N, Duffy R, Homewood K, Jones JPG, Keane A, Milner-Gulland EJ, **Nuno A** & Razafimanahaka J. (2016) Research ethics: Assuring anonymity at the individual level may not be sufficient to protect research participants from harm. *Biological Conservation* 196: 208-209. [Letter to the Editor]

Fairbrass A, **Nuno A**, Bunnefeld N, Milner-Gulland EJ. (2016) Investigating determinants of compliance with wildlife protection laws: Bird persecution in Portugal. *European Journal of Wildlife Research* 62: 93-101.

**Nuno A**, Milner-Gulland EJ, Bunnefeld B. (2015) Detecting abundance trends under uncertainty: the influence of budget, observation error and environmental change. *Animal Conservation* 18: 331-340.

**Nuno A**, St John F. (2015) How to ask sensitive questions in conservation: A review of specialised questioning techniques. *Biological Conservation* 189: 5-15.

Keane A, **Nuno A**, St John F. (2015) Data collected using the randomised response technique must be analysed using specialised statistical methods. *Biological Conservation* 187: 279-280. [Letter to the Editor]

**Nuno A**. (2015) Achieving ecological conservation impact is not enough: setting priorities based on multiple criteria. *Animal Conservation* 18: 16-17. [Invited commentary]

Maxwell S, Milner-Gulland EJ, Jones JPG, Knight AT, Bunnefeld N, **Nuno A**, Bal P, Earle S, Watson JEM & Rhodes JR. (2015) Being smart about SMART environmental targets. *Science* 347: 1075-1076.

**Nuno A**, Bunnefeld N, Milner-Gulland EJ. (2014) Managing social-ecological systems under uncertainty: implementation in the real world. *Ecology and Society* 19(2): 52.

Maxwell S, Rhodes JR, Bal P, Bunnefeld N, Earle S, Jones JPG, Milner-Gulland EJ, **Nuno A**, Watson JEM, Knight AK. (2014) Sustainability: root targets in consensus. *Nature* 514: 434. [Correspondence]

**Nuno A**, Bunnefeld N, Naiman L, Milner-Gulland EJ. (2013) A novel approach to assessing the prevalence and drivers of illegal bushmeat hunting in the Serengeti. *Conservation Biology* 27(6): 1355-1365.

**Nuno A**, Bunnefeld N, Milner-Gulland EJ. (2013) Matching observations and reality: using simulation models to improve monitoring under uncertainty in the Serengeti. *Journal of Applied Ecology* 50(2): 488-498.

Milner-Gulland EJ, Arroyo B, Bellard C, Blanchard J, Bunnefeld N, Delibes-Mateos M, Edwards C, **Nuno A**, Palazy L, Reljic S, Riera P & Skrbinsek T. (2010) New directions in Management Strategy Evaluation through cross-fertilisation between fisheries science and terrestrial conservation. *Biology Letters* 6: 719-722.

## TEACHING

### Convenor of “Dissertation” module (Sustainable Development + Conservation Science and Policy MSc courses), University of Exeter

2015 - 2016

- Coordinated students’ assignments and overall progress within their research projects. Provided **student support** and guidance.
- Prepared and delivered **lectures and workshops** on undertaking research projects, methods from social sciences, and writing literature reviews (10h)

### MSc Conservation Science, Imperial College London

2009 - 2013

- Prepared and facilitated **discussion groups** on several topics in Conservation Science, such as Conservation Marketing, Conservation & Corruption, Population growth & Consumption (100 h)
- Demonstrated on **practical sessions** on statistical analysis in R and bioeconomic and population models (12h)
- Organized **stats support groups** to assist MSc students during their research projects (20 h)
- Lectured on **conducting research overseas** (3 h)

## SUPERVISION

### *Postdoctoral research associate*

Nibedita Mukherjee, **University of Exeter**,  
*Operationalizing ecosystem services in business: a global analysis of implementation, challenges and opportunities*

Dec 2016 - ongoing

### *Postdoctoral research assistant*

Joana Ribeiro, **CIBIO/InBIO, University of Porto, Portugal** – *BIRDTRADE: a global assessment of trends and drivers*

Jan 2018 - ongoing

### *PhD students*

Claire Collins, **PhD Biological Sciences, University of Exeter** – *Livelihood options of deep-sea, shark fishing communities in Sri Lanka (SW) and India (SW) and implications for distant water MPA management*

Fev 2018 - ongoing

### *Graduate Research Assistants*

Guillermo Porriños, **University of Exeter** – *Marine biology and small scale fisheries fieldwork and research (Principe Island)*

May 2017 - ongoing

<b>MSc students</b> Lauren Lopes, <b>MSc Global Change Ecology, University of Bayreuth, Germany</b> – <i>Priority efforts for addressing the global illegal trade in marine turtles</i>	2018 - ongoing
Kirsty Fraser, <b>MSc Conservation and Biodiversity, University of Exeter</b> – <i>Traditional ecological knowledge as a tool for assessing the status of endangered data-poor species: a case study of marine turtles in the Philippines</i>	2016 - 2017
Edmund Brett, <b>MSc Conservation Science and Policy, University of Exeter</b> – <i>Feasibility of a Payment for Ecosystem Services scheme utilizing bivalve aquaculture to improve coastal waters</i>	2016 - 2017
Eva-Maria Alexandra Panagiotou, <b>MSc Conservation Science and Policy, University of Exeter</b> – <i>A global analysis of demand reduction approaches for sea turtle products</i>	2016 - 2017
Oliver Kerr, <b>MSc Conservation Science and Policy, University of Exeter</b> – <i>Can existing policy mitigate the impacts of climate change on marine turtles in the Arabian region?</i>	2016 - 2017
Josh Taylor, <b>MSc Conservation Science, Imperial College London</b> - <i>Investigating the social aspects and conservation implications of wild animal poisoning in Portugal (Distinction)</i>	2015 - 2016
Nigel Sainsbury, <b>MSc Conservation Science and Policy, University of Exeter</b> – <i>Exploring social dimensions of species reintroduction for improved conservation planning: beavers in Cornwall</i>	2015 - 2016
Rachael Edwards, <b>MSc Conservation and Biodiversity, University of Exeter</b> – <i>Take it from turtles, don't just skim the surface: applications of a generalized impact evaluation incorporating stakeholder perceptions</i>	2015 - 2016
Katia Oddi, <b>MSc Conservation Science and Policy, University of Exeter</b> – <i>Moving towards a better understanding of human-wildlife interactions: a case study of anglers' perceptions of the Eurasian otter, Lutra lutra, and otter predation management strategies on the Thames catchment</i>	2015 - 2016

Ana Paola Diez, <b>MSc Sustainable Development, University of Exeter</b> – <i>Climate change vulnerability among forest-dependent communities: a case-study with Brazil nut harvest in Bolivia</i>	2015 - 2016
Jessica Walker, <b>MSc Conservation Science and Policy, University of Exeter</b> – <i>Conservation conflicts and the media: a case study of sea turtles in the Cayman Islands</i>	2014 - 2015
Georgina Venman, <b>MSc Conservation Science and Policy, University of Exeter</b> – <i>Crocodile farming: conflicts in the media</i>	2014 - 2015
Amy Fitzmaurice, <b>MSc Conservation Science, Imperial College London</b> - <i>The direct and indirect impacts of logging on mammals in Sabah, Borneo</i>	2013 - 2014
Alison Fairbrass, <b>MSc Conservation Science, Imperial College London</b> – <i>Using novel techniques to measure illegal killing of birds in southern Portugal: the unmatched count technique (Distinction)</i>	2011 - 2012

**SELECTED PRESENTATIONS**

Participatory approaches for marine conservation. *First Congress of Marine Biology of Portuguese Language Countries, Faro, Portugal (2018)*

**INVITED:** Would you poach? Assessing potential outcomes from management strategies. *27<sup>th</sup> International Congress for conservation Biology, Montpellier, France (2015)*

*Monitoring under uncertainty for informed management decisions.* 9<sup>th</sup> Tanzania Wildlife Research Institute conference, Arusha, Tanzania (2013)

**INVITED:** *Applying novel approaches to assess illegal bushmeat hunting in the Serengeti.* 26<sup>th</sup> International Congress for Conservation Biology, Baltimore, USA (2013)

**INVITED:** *Application of Novel Approaches to Assess Sensitive Behaviours in Conservation.* 3<sup>rd</sup> European Congress of Conservation Biology, Glasgow, Scotland (2012)

**INVITED:** *Application of novel approaches to assess sensitive behaviours.* International Conference on Hunting for Sustainability: ecology, economics and society, Ciudad Real, Spain (2012)

## PROFESSIONAL SERVICE

### Journal reviewer for:

Basic and Applied Ecology, Biological Conservation, Conservation Biology, Conservation Letters, Current Opinion in Environmental Sustainability, Ecosphere, Endangered Species Research, Environmental Conservation, European Journal of Wildlife Research, Field Methods, Frontiers in Ecology and the Environment, Human Dimensions of Wildlife, International Forestry Review, International Journal of Biodiversity and Conservation, Journal of Applied Ecology, Journal for Nature Conservation, Oryx, PeerJ, Plos One

## REFERENCES

### Prof E.J. Milner-Gulland

University of Oxford  
Department of Zoology  
Tinbergen Building  
South Parks Road  
Oxford, OX1 3PS  
e: e.j.milner-  
gulland@imperial.ac.uk  
tel: +44 (0) 1865 271278

### Prof Annette Broderick

University of Exeter  
Centre for Ecology and Conservation  
College of Life and Environmental  
Sciences  
Penryn, TR10 9FE, UK  
e: A.C.Broderick@exeter.ac.uk  
tel: +44 (0) 1326 371842

### Prof Nils Bunnefeld

School of Natural Sciences  
University of Stirling  
Stirling, FK9 4LA  
Scotland  
e: nils.bunnefeld@stir.ac.uk  
tel: +44 (0)17 8646 7804