

## ANA NUNO, Marie Skłodowska-Curie Research Fellow<sup>1</sup> and Honorary Senior Lecturer<sup>2</sup>

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### RESEARCH INTERESTS

My research interests are focused on developing and applying **integrated social-ecological approaches** in natural resource management that explicitly consider feedbacks between system components, and trade-offs between strategies. I am particularly interested in the application of **tools and findings from multiple disciplines** to conservation and in developing **novel techniques** to achieve a better understanding of the dynamics of social-ecological systems, particularly regarding the **design and evaluation of interventions targeting behavioural change**. Ultimately, I aim to contribute to operationalizing more holistic approaches to conservation, such as adaptive management, and implement robust interventions with a **focus both on biodiversity conservation and human wellbeing**. Using a number of case studies all over the world (e.g. bushmeat hunting in the Serengeti, sea turtle farming in the Cayman Islands, and artisanal fisheries in São Tomé and Príncipe), and working in close collaboration with, for example, fishers, governmental agencies, development and environmental NGOs, my works brings together ecological and social data into unified frameworks to **inform management and policy decisions** and help manage conflicts over natural resources.

### QUALIFICATIONS

Oct 2009 – Sep 2013	PhD, Imperial College London, UK
Oct 2006 – Sep 2007	MRes Biodiversity & Conservation, University of Leeds, UK
Sep 2001– July 2005	BSc (Applied Animal) Biology, University of Porto, Portugal

### EMPLOYMENT

Starting Apr 2020	Marie Skłodowska-Curie Research Fellow, NOVA University Lisbon, Portugal
Feb 2020 – present	Honorary Senior Lecturer, University of Exeter, UK
May 2016 – Feb 2020	Research Fellow, University of Exeter, UK
Jun 2014 – Apr 2016	Associate Research Fellow, University of Exeter, UK
Mar 2014 – May 2014	Visiting Fellow, Centre of Excellence for Environmental Decisions, Australia
Oct 2010 – Mar 2013	MSc course tutor and administrator, Imperial College London, UK
May 2008 – Apr 2009	Project manager and fundraiser, GAIA – Alentejo (NGO), Portugal

### SELECTED GRANTS

2019	Marine spatial planning as social-ecological integrative tool <b>€147,815</b> Marie Skłodowska-Curie Individual Fellowship
2019	Establishing a network of marine protected areas across São Tomé and Príncipe through a co-management approach <b>€40,000</b> from Fauna & Flora International
2018	Marine biodiversity assessment through baited underwater camera monitoring and maturity assessment of selected demersal fish species <b>€35,705</b> from Africa's Eden
2017	Science for management of the BIOT Marine Reserve: socio-economics of illegal, unreported and unregulated fisheries <b>£118,734</b> from Bertarelli Foundation
2016	Operationalizing ecosystem services in business: a global analysis of implementation, challenges and opportunities <b>£112,090</b> Gift from donor (Dominic Scriven)
2016	Improving marine biodiversity and livelihoods of coastal communities in Príncipe <b>£295,187</b> from Darwin Initiative (co-I)
2009	PhD scholarship <b>€ 90,000</b> from Foundation for Science and Technology, Portugal

### KEY RELEVANT PUBLICATIONS

<https://scholar.google.co.uk/citations?user=CgcBJAAAAAJ&hl=en>

Veríssimo D, Vieira S, Monteiro D, Hancock J, **Nuno A** (2020) Audience research as a cornerstone of demand management interventions for illegal wildlife products: demarketing sea turtle meat and eggs. *Conservation Science and Practice*.

Travers H, Selinske M, **Nuno A**, Serban A, Mancini F, Barychka T, Bush E, Rasolofson R, Watson JEM & Milner-Gulland EJ (2019) A manifesto for predictive conservation. *Biological Conservation* 237: 12-18.

Hinsley A, Keane A, St John F, Ibbett H, **Nuno A** (2019) Asking sensitive questions using the Unmatched Count Technique: applications and guidelines for Conservation. *Methods in Ecology and Evolution* 10 (3): 308-319

Guerrero A, Bennett N, Wilson K, Carter N, Gill D, Mills M, Ives C, Selinske M, Larrosa C, Bekessy S, Januchowski-Hartley F, Travers H, Wyborn C, **Nuno A** (2018) Achieving the promise of integration in social-ecological research: A review and prospectus. *Ecology & Society* 23(3):38

**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(2): 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.

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

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.

## **SUPERVISION**

- Supervised two postdoctoral researchers (*Operationalizing ecosystem services in business: a global analysis of implementation, challenges and opportunities*, University of Exeter, UK and *Global assessment of trends and drivers of wild bird trade*, University of Porto, Portugal)
- Currently supervising two PhD students (*Socio-economics of illegal, unreported and unregulated fisheries in BIOT marine reserve*, University of Exeter, UK and *Snails, forest and people: conservation and ecology of terrestrial molluscs in a tropical island*, University of Lisbon, Portugal)
- Supervised 14 MSc students to successful completion (11 of them were based at University of Exeter, two at Imperial College London, UK and one at the University of Bayreuth, Germany). I am currently supervising two students at the University of Lisbon (Portugal) and three students at the University of Exeter.

## **SELECTED PRESENTATIONS**

- **INVITED**: Rule breaking in conservation: social sciences to the rescue! *Science and Conservation Event* at ZSL, London, UK (2019)
- **INVITED**: Empowered small scale fishers? Behavioural insights for improved fisheries management *Challenges and opportunities in large-scale conservation Symposium*, Montpellier, France (2019)
- Perceived influence over marine conservation: determinants and implications of empowerment. *MARE People & Sea Conference*, Amsterdam, The Netherlands (2019)
- **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)

## **PROFESSIONAL SERVICE**

**Associate Editor for:** Animal Conservation, Conservation Science & Practice

**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, Nature Communications, Oryx, PeerJ, Plos One

**Grant reviewer for:** British Ecological Society (Research, Outreach and Ecologists in Africa grants), VLIR-UOS (Flemish Interuniversity Council, University Development Cooperation; TEAM projects), The Leverhulme Trust (Research project grants)

## **SELECTED MEDIA COVERAGE OF PEER-REVIEWED PUBLICATIONS**

Atlas Obscura, 05/03/2020, [In São Tomé, a Pop Star Helps Keep Sea Turtles Off the Dinner Table](#)

Earth Sky, 07/01/2018, [Ocean plastic killing marine turtles](#)

El Colombiano, 18/12/2017, [Cientos de tortugas marinas mueren enredadas em basura](#)

Technology.org, 02/10/2017, [Conservationists should harness 'Hollywood effect' to help wildlife](#)

Le Figaro, 02/10/2017, [De l'utilité de Hollywood pour sauver les espèces](#)

Deutsche Welle, 02/10/2017, [Kann Hollywood helfen, Tierarten vor dem Aussterben zu retten?](#)

Science Daily, 13/05/2016, [Conservation laws need reshaping to protect sea turtles](#)