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| ***Curriculum Vitae – Dr Alastair R. Harborne*** |
| **Nationality:** British / Australian  **Address:** *Work:* Department of Biological Sciences - Marine Sciences Program, Florida International University, Biscayne Bay Campus, MSB 352  3000 NE 151 Street, North Miami, Florida 33181, USA  *Email:* alastair.harborne@fiu.edu *Tel:* +1-305-919-4232 *Skype name:* al\_harborne  *Twitter*: @alharborne *Lab website*: http://tropicalfishecologylab.com |
| **Research Overview**  I am an ecologist primarily interested in coral reef fishes, providing novel insights into the impacts of environmental change on these fishes, and underpinning sound conservation science. A current research focus, in both the Caribbean and Pacific, is examining the processes (abiotic and biotic) controlling the abundance, ecology, and behavior of coral reef fish species, and integrating this work into food web models to provide a comprehensive understanding of tropical communities and the threats to their health. |
| **Qualifications**  **January 2002 – December 2006**: PhD at the University of Exeter. Supervised by Professor Peter Mumby. *Viva voce* examination January 2007, formally approved on 5th March 2007.  *“The ecology of coral reef communities at seascape scales”.*  Focused on considering Caribbean marine habitats at seascape scales to provide novel insights into their ecology and conservation, including (1) separating natural variation from marine reserve effects; (2) habitats as surrogates of fish community structure; (3) mapping wave energy using remotely-sensed imagery and linear wave theory; (4) modelling the beta diversity of coral reefs; and (5) functional value of Caribbean reef habitats to ecosystem processes. My PhD was part of a larger project entitled “Coupled natural and human dynamics in coral reef ecosystems”.  **October 1990 – July 1993**: Degree at the University of Southampton - First Class BSc joint honours degree - Oceanography with Biology. *Dissertation – “A study of interhabitat differences within the coral reef fish community on and around the Belize Barrier Reef”*. |
| **Employment**  **January 2016 onwards:** *Assistant Professor, Florida International University*  Tenure track research and teaching position, involving 67% research, 23% teaching / instruction, and 10% service. The research component involves conducting research of the highest caliber and publishing in peer-reviewed journals, teaching contributes to the department’s teaching mission at undergraduate and graduate levels, and service involves advising students, participating in faculty meeting and committees, and to national societies and journals.  **16th March 2015 – 29th January 2016:** *Post-doctoral Research Fellow*  Employed under a contract from The Nature Conservancy (TNC), this position involved developing maps and models of fishing pressure and standing stocks across Micronesia to support conservation efforts as part of TNC’s Mapping Ocean Wealth initiative.  **1st March 2012 – 28th Feb 2015:** *Australian Research Council DECRA Research Fellow*  This research fellowship, worth AU$375,000, was entitled “The effects of sea-level rise on the feeding ecology of coral-reef fishes in shallow water, and the implications for reef-flat food webs”. The aim of this on-going research was to establish the migration and feeding ecology of reef fishes on reef flats, and to integrate these data into models of how food webs vary with tidal state. The research examined the implications of sea-level rise on the tropho-dynamics of shallow reef habitats.  **1st December 2008 – 30th November 2011**: *Natural Environment Research Council Independent Research Fellow*  This research fellowship, worth £247,243, was entitled “A holistic model of the factors controlling reef-fish populations, including both pre- and post-settlement processes”. The aim of this on-going research was to analyse a uniquely large database on fish species’ abundances across The Bahamas in order to gain insight into the relative importance of different processes controlling their populations.  **1st October 2004 – 30th November 2008:** *Research / Teaching Assistant, University of Exeter*  During the completion of my PhD, and subsequently as a post-doctoral researcher, I was employed at the University of Exeter in two different capacities. Firstly, I worked as a Research Assistant to Prof. Peter Mumby as part of the Remote Sensing Working group within the World Bank’s Coral Reef Targeted Research Program. The remainder of my time was as a Teaching Assistant.  **1st May 1996 – 31st December 2001:** *Coral Cay Conservation (CCC) Marine Science Co-ordinator*  Responsible for the marine scientific programme carried out by CCC (a non-profit making NGO utilising paying volunteers to survey marine resources in developing countries). Role included establishing and directing survey and training protocols for fieldwork carried out by CCC volunteers and local counterparts and subsequent data analysis and making management recommendations.  **13th September 1993 - 1st May 1996***: CCC Assistant Science Co-ordinator*  Aided development of survey methodologies used by CCC volunteers, and subsequent data analysis. Input into CCC scientific reports, information dissemination and identified and carried out research for publications. Directed fieldwork and training of volunteers and Belizeans in the field. |
| **Funding**   * The Nature Conservancy, “Mapping fishing and fish stocks in Florida”, $40,000, 2018-2019 * World Wide Fund for Nature, “Community-based natural resource management: Indonesian case study”, $166,765, 2018-2019 * Florida Fish and Wildlife Conservation Commission, “The effects on natural reefs of predatory fish aggregations around nearby artificial reefs”, $50,793, 2017-2018 * The Nature Conservancy, “Mapping fishing and fish stocks across The Bahamas”, $25,000, 2016 * Australian Research Council Discovery Early Career Researcher Award Fellowship, AU$375,00, 2012 – 2015 * Natural Environment Research Council Independent Research Fellowship, £247,243, 2008-2011 * Earthwatch Institute “Mangroves and coral reefs as effective fish nurseries": the effects of fishing, climate change, and altering coasts”, US$190,000, 2011-2015 * Great Barrier Reef Foundation “Quantification of coral reef habitat structural complexity and community composition in a changing ocean using 3D models” AU$152,400 (co-I on a project led by Prof. Maria Byrne, University of Sydney), 2013-2014 * UQ new staff research start-up grant “Fishes on coral reef flats: are they thermal generalists compared to fishes in deeper water?”, AU$11,910 * UQ Global Change Institute Seed Grant “The effects of predators on blue carbon storage in an algal dominated landscape” (to Atwood Macreadie, Madin, and Harborne), AU$8,600, 2014 * Alumni Fund, University of Exeter, Widening Bahamas field course participation, £20,000, 2007 * Darwin Initiative, Dynamics of juvenile corals in Honduras, £30,000, 2001 |
| **Teaching**  At Florida International University I currently teach:   * OCB 3043, Marine Biology and Oceanography, which provides an introduction to marine biology and biological oceanography. I am also the instructor of record for the associated lab. * OCB 3264, ​Coral Reef Biology, which provides an introduction to the taxonomy, biology and ecology of the main groups on coral reefs inhabitants   I am an Associate of the Higher Education Academy (UK), having completed a course in ‘Learning and Teaching in Higher Education’.  I created and taught three under-graduate courses in marine biology at the University of Exeter: (1) Marine biology (level II), 15 credit course, (2) Tropical marine biology (level III), 15 credit course, (3) Bahamas field course (level II), 15 credits  These courses were very attractive to students, achieving high levels of participation (>50 for the taught courses, and the maximum 32 for the field course), and receiving high feedback ratings.  I contributed to the production of material for the University of Queensland’s massive open online course (MOOC) on “Tropical coastal ecosystems” delivered via the edX platform. |
| **Student Supervision**   * At FIU I am the major professor of 3 PhD students and 1 MSc student, and am on the committee for another 5 PhD students (plus 2 who successfully defended) * I am co-supervisor of 6 PhD non-FIU students (4 completed, 2 on-going) * At the University of Queensland I hosted a PhD student from Universidade Federal Fluminense for six months in order to help him prepare his thesis for submission * I have supervised 1 Honours student at the University of Queensland * I have also supervised / co-supervised under-graduate and MSc projects and dissertations. * I have acted as an internal PhD examiner to four students at the University of Exeter (UK), and external examiner for students at the University of York (UK) and James Cook University and Griffith University (Australia). MSc external marker for a project at the University of the South Pacific. |
| **Journal Editing / Reviewing**   * Ecological Editor for *Coral Reefs* (impact factor 3.095) * *Ad hoc* editor for *Conservation Biology*. * Reviewer for >45 different journals, including *PNAS*, *Current Biology*, *Ecology*, *Ecological Monographs*, *Ecology Letters*, *Global Change Biology*, *Oikos*, and *Conservation Biology.* * Reviewer of standard grants to the Natural Environment Research Council * Reviewer of fellowship and project grants to the Australian Research Council * Grant reviewer for the major funding councils of the USA (NSF), France and the Netherlands |
| **Learned Societies / Committees**   * Councillor for the International Society for Reef Studies (from Jan 2011-2014) * Member of the International Society for Reef Studies * Member of the Coral Cay Conservation Scientific Advisory Committee * Academic member of the Southeast Florida Coral Reef Initiative |
| **Consultancy Work**   * 2008 & 2011: Remote sensing consultant to Kerzner Foundation * 2007: Co-taught a one week course in Zanzibar on the use of UNESCO’s Winbilko software to delegates from across the East African region * 2005: Consultant to the Khaled bin Sultan Living Oceans Foundation to train staff in remote-sensing techniques. * 2000: Consultant for the UNDP-GEF to prepare a report on the status of reefs within a series of marine parks east of Peninsula Malaysia. * 1998: Consultant on an ODA funded project being undertaken by the Universities of Sheffield and Newcastle (UK) to prepare a national habitat map of Belize and train a Belizean counterpart. |
| **Other Skills And Experience**   * Founder member of the Reef Conservation - UK committee. This includes organization of an annual one-day conference for UK reef researchers and administration of a small grants scheme * Developed and presented numerous marine survey workshops on behalf of the RGS Expedition Advisory Centre and BP Conservation Programme. * Presentations at a variety of scientific conferences including the 9th, 10th, 11th 12th, and 13th International Coral Reef Symposia, four European meetings of the International Society for Reef Studies, and the 9th Indo-Pacific Fish Conference. Guest lecturer for Swan Hellenic cruises. * Seminar presentation at USGS, Lafayette, Louisiana and ARC Centre of Excellence for Coral Reef Studies, Townsville * Media interviews for BBC World Service, BBC news and local radio stations. * AAUS Scientific Diver, PADI Rescue Diver and Emergency First Responder with over 550 logged dives in the Caribbean, South East Asia, South Pacific and the Red Sea. Small boat licence. |

**Publication List**

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1. Equal contribution to authorship [↑](#footnote-ref-1)
2. Nominated (one of five) for ‘Best Paper Award’ from Vol 28 (2009) of Coral Reefs [↑](#footnote-ref-2)