Thomas J. Del Santo ONeill

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Education

PhD. Biological Sciences

Sept 2019 - Sept 2023

Department of Organismal Biology, Queen Mary University of London

- Thesis: "Methods and policy pathways to optimize production of mixed stocks of biological resources."
- Funded by a BBSRC LIDo DTP iCASE scholarship in collaboration with the Centre for Environment, Fisheries and Aquaculture Sciences (CEFAS)

MSc. Freshwater and Marine Ecology – 1st Class Honours (81.2%)

2017 - 2018

Department of Organismal Biology, Queen Mary University of London

• Thesis: "Assessment of management options to attain Maximum Sustainable Yield from multiple interacting stocks in the North Sea." – 1st Class Honours (85%)

BSc. Marine Sciences – Upper-Second Class Honours (67%)

2012 - 2016

Marine and Environmental Sciences Faculty, University of Cadiz

• Thesis: "Usage of MS-222 as a soothing anaesthetic for gilthead sea bream juveniles (*Sparus aurata*) under a simulated stress condition of transport." – 1st Class Honours (76%)

A levels – Biology (A), English (A), Maths (B)

2010 - 2012

IES Las Encinas, Madrid

Experience

Marine Conservation NGO Collaboration

Jul 2018

Maio Biodiversity Foundation, Island of Maio, Cape Verde

- Object: support the development of the "Turtle Protection" and "Marine Conservation" programmes
- *Duties*: (i) nocturnal beach patrolling to decrease poaching, morphometric measurements and movement tags deployment on nesting sea turtles; (ii) cetacean, coral reef and Kentish plover surveys for predictive distribution/population-dynamics studies; and (iii) BRUVs usage as non-invasive survey technique

Lab Research Assistant Internship

Oct 2015 - Jun 2016

Department of Fish Physiology & Endocrinology, University of Cadiz, Spain

- Object: improve aquaculture practices by mitigating the stress response of different farmed teleosts
- *Duties*: (i) lab inventory tracking; (ii) fish/tanks mantainance; (iii) biometric sampling and blood collection by caudal puncture; and (v) quantitative determination of plasmatic metabolites

Oceanographic Campaing

Jun 2014

Spanish Navy Hidrographic Institute, Bay of Cadiz, Spain

- Object: oceanographic data collection and hydrographic characterisation of the Bay of Cadiz
- *Duties*: (i) manual CTD and Niskin bottles carousel deployment; (ii) bathymetric surveys; (iii) neuston and plankton sampling with bongo ring nets

Relevant Working Experience

Team-Leader Fundraiser

Sept - Present

Barnardo's Charity, Crystal Palace, London, UK

• *Outline*: Inspiring prospective donors with less than 12% attrition rate and exceeding £6,000 raised (yearly projection)

English Language Assistant

Sept 2016 - Jun 2017

Bilingual School Programme, Madrid Ministry of Education and Reasearch, Spain

• *Outline*: During an academic year my roles were diverse, including administrative responsabilities, resource production and front of class teaching

Skills _

Operating systems

- UNIX-like kernels (e.g. Mac OS and GNU/LINUX)
- Windows

Programming Languages

• R, Python, C++, Visual Basic .NET and MATLAB

Scientific Report Writing

- LATEX alongside its BEAMER class for presentations
- Markdown via the R packages Rmarkdown / bookdown and blogdown for creating websites

GUI Software

• Ecopath with Ecosim (EwE), Ocean Data View (ODV), GraphPad Prism, ArcGIS, Inkscape, Adobe and MS Office

Publications

Journal

Jerez-Cepa, I., Fernandez-Castro, M., **Del Santo O'Neill, T. J.**, Martos-Sitcha, J. A., Martinez-Rodriguez, G., Mancera, J. M. and Ruiz-Jarabo, I. (May) 2019. Transport and recovery of gilthead seabream (*Sparus aurata* L.) sedated with clove oil and MS-222: effects on stress axis regulation and intermediary metabolism. *Frontiers in Physiology*, 10:612. DOI: 10.3389/fphys.2019.00612.

Talks

Jerez-Cepa, I., Castro, M. F., **Del Santo O'Neill, T. J.**, Lopez, M. A., Manzano, G. G., Jarabo, I. R. and Mancera, J. M. (October) 2018. Sedation as an alternative to reduce the stress of farmed fish during transport. 1st Congress of Young Marine Researchers, Cadiz. Book of abstracts (pp. 177-179).

Blog

Del Santo O'Neill, T. J., Francelle, P., Goodwin, A., Grey, J., Nash, L. and Nye, A. (December) 2017. Woodplumpton Brook restoration: baffle-ing results! *The Wild Trout Trust Blog*.

Posters

Castro, M. F., **Del Santo O'Neill, T. J.**, Jerez-Cepa, I. and Mancera, J. M. (July) 2017. Potential use of the anaesthetic MS-222 and clove oil to mitigate the stress response during transport in gilthead sea bream (*Sparus aurata*). 11th Congress of the Iberian Association for Comparative Endocrinology, Vigo. Link to file.

Del Santo O'Neill, T. J., Castro, M. F., Jerez-Cepa, I. and Mancera, J. M. (June) 2016. Usage of MS-222 as a soothing anaesthetic for gilthead sea bream juveniles (*Sparus aurata*) under a simulated stress condition of transport. 8th Meeting for the Aquaculture in the South Atlantic Littoral, Huelva. Link to file. | -Note: 1st prize for best poster (€300).

Del Santo O'Neill, T. J., Castro, M. F., Jerez-Cepa, I. and Mancera, J. M. (May) 2016. Effect of MS-222 (tricaine methanosulfonate) on the stress system of gilthead sea bream juveniles (*Sparus aurata*). 2^{nd} *Scientific Symposium of the Marine and Environmental Sciences Faculty*, Cadiz. Link to file. | **-Note:** 1^{st} prize for best poster ($\in 100$).

Courses & Conferences Attended	
Courses	
• Improving your statistical inferences (online) Eindhoven University of Technology	Feb 2019
• Game Theory (online) Stanford University and the University of British Columbia	Mar 2018
• Sustainable urban mobility. Planification, management and innovations Vice-chancellorship of Social Responsability, Cultural Extension and Services, University of Cadiz	Mar 2016
• Aquaculture in southern Europe: basic and applied aspects 2 nd International Summer School, Cadiz Marine Research Laboratory -Note: fully-funded place	Jul 2015
PADI Open Water Diver	Aug 2012
Conferences	
 Aquaculture in the Bay of Cadiz: cultivating the future 15th National and 1st Iberian Aquaculture Congress 	Nov 2015 Oct 2015
Society Memberships	

• British Ecological Society

Jan 2019