# Thomas J. Del Santo ONeill

**Y** TJO\_Neill
 ☑ delsantooneillthomas@gmail.com
 **②** tba | Updated: Sept 2019

### **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 studentship 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." – 1<sup>st</sup> 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." – 1<sup>st</sup> 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 Campaign

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 2018 - Mar 2019

Barnardo's Charity, Crystal Palace, London, UK

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

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

• *Outline*: During an academic year my roles were diverse, including administrative responsibilities, 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. 1<sup>st</sup> 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*). 11<sup>th</sup> 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. 8<sup>th</sup> Meeting for the Aquaculture in the South Atlantic Littoral, Huelva. Link to file. | -Note: 1<sup>st</sup> 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<sup>nd</sup> Scientific Symposium of the Marine and Environmental Sciences Faculty, Cadiz. Link to file. | -Note: 1<sup>st</sup> prize for best poster (€100).

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

# Society Memberships

• British Ecological Society

Jan 2019