Thomas J. Del Santo ONeill

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Education

DPhil. Biological Sciences

2019 - 2023

School of Biological and Behavioural Sciences, Department of Biology - Queen Mary University of London (UK)

- Thesis: "Methods and policy pathways to optimize production of mixed stocks of biological resources".
- Funded by the Biotechnology and Biological Sciences Research COuncil (BBSRC) through the London Interdisciplinary Doctoral Programme (LIDo) in collaboration with the Centre for Environment, Fisheries and Aquaculture Sciences (CEFAS).

MSc. Freshwater and Marine Ecology

2017 - 2018

School of Biological and Behavioural Sciences, Department of Biology - Queen Mary University of London (UK)

• 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 2012 - 2016

Marine and Environmental Sciences Faculty - University of Cadiz (Spain)

• 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%)

Employment and Experience

Postdoc Feb 2024 - Mar 2025

School of Biological and Behavioural Sciences, Department of Biology - Queen Mary University of London (UK)

- Project: "Towards Multispecies Fisheries Management".
- Project Investigator: Dr. Axel G. Rossberg.
- Funded by the Fisheries and Seafood Scheme (FaSS).

Teaching Demonstrator

2019 - 2021

School of Biological and Behavioural Sciences, Department of Biology - Queen Mary University of London (UK)

- Object: Support students in a lab and/or exercise lecture guiding and/or facilitating discussions, as directed by the Module Organiser.
- Modules: "Statistics for Bioinformaticians" (BSc) and "Ecological Theory and Applications" (MSc).

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.

English Language Assistant

Sept 2016 - Jun 2017

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.

Research Assistant Intern

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.

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• *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.

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 bloqdown for creating websites

GUI Software

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

Publications

Journal

Del Santo O'Neill, T. J., Rossberg, A. G. and Thorpe, R. B. 2024. An efficient tool to find multispecies MSY for interacting fish stocks. Fish and Fisheries. [Manuscript under review]. Preprint available at 10.1101/2023.01.25.525330.

Jerez-Cepa, I., Fernández-Castro, M., **Del Santo O'Neill, T. J.**, Martos-Sitcha, J. A., Martínez-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.

Technical Reports

ICES. 2024. Working Group on Multispecies Assessment Methods (WGSAM; outputs from 2023 meeting). ICES Scientific Reports. 6:13. 218 pp. https://doi.org/10.17895/ices.pub.25020968.

ICES. 2023. Working Group on Multispecies Assessment Methods (WGSAM; outputs from 2022 meeting). ICES Scientific Reports. 5:12. 233 pp. https://doi.org/10.17895/ices.pub.22087292.

ICES. 2021. Working Group on Multispecies Assessment Methods (WGSAM).ICES Scientific Reports. 3:115. 50 pp. https://doi.org/10.17895/ices.pub.9562.

ICES. 2021. Working Group on Multispecies Assessment Methods (WGSAM; outputs from 2020 meeting). ICES Scientific Reports. 3:10. 231 pp. https://doi.org/10.17895/ices.pub.7695.

Talks

Jerez-Cepa, I., Fernández-Castro, M., **Del Santo O'Neill, T. J.**, López, 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).

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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

Fernández-Castro, M., 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., Fernández-Castro, M., 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., Fernández-Castro, M., 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*). 2nd Scientific Symposium of the Marine and Environmental Sciences Faculty, Cadiz. Link to file. | -Note: 1st prize for best poster (€100).

Courses & Conferences Attended

Courses

• SysMIC 2019 - 2020 Biotechnology and Biological Sciences Research COuncil (BBSRC)

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• Improving your statistical inferences (online) Eindhoven University of Technology

Feb 2019

• 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

2nd International Summer School, Cadiz Marine Research Laboratory | -Note: fully-funded place

Aug 2012

• PADI Open Water Diver

Conferences

• Aquaculture in the Bay of Cadiz: cultivating the future

Nov 2015

• 15th National and 1st Iberian Aquaculture Congress

Oct 2015

Society Memberships _

• British Ecological Society

Jan 2019 - Present

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