

# Curriculum Vitæ

João Gomes Ferreira

April 2016

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# Curriculum Vitæ

April 2016

## João Gomes Ferreira

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### **Academic qualifications**

2004 - *Agregação* (Habilitation) in the *Grupo de Disciplinas de Qualidade Ambiental* at the New University of Lisbon.

1989 - Ph.D in Environmental Sciences, New University of Lisbon.

1980 – B.Sc. Hons. in *Biology with Oceanography* Southampton University, United Kingdom.

### **Professional activity**

Since 2006 – Tenured Associate Professor with *Agregação*, Department of Environmental Science and Engineering, Faculty of Sciences and Technology, New University of Lisbon.

Since 2004 – Tenured Assistant Professor with *Agregação*, Department of Environmental Science and Engineering, Faculty of Sciences and Technology, New University of Lisbon.

Since 1994 - Tenured Assistant Professor, Department of Environmental Science and Engineering, Faculty of Sciences and Technology, New University of Lisbon.

Since 1989 - Assistant Professor, Department of Environmental Science and Engineering, Faculty of Sciences and Technology, New University of Lisbon.

## **Research projects**

### **International**

1. EAMNET - EU Framework VII. Concluded (2010-2013). Partner. Coordinator: S.N. Groom, Plymouth Marine Laboratory, U.K.
2. COEXIST – EU Framework VII. Concluded (2010-2013). Coordination of Workpackage 3. Coordinator: Ø. Bergh, IMR, Norway;
3. TAICHI – Trophic Assessment in Chinese Coastal Waters. SPEAR Leverage Programme, Tripartite EU-U.S.-China. In Progress (2005-). Steering Group: S.B. Bricker (NOAA, US), J.G. Ferreira (FCT-UNL, Portugal), M.Y. Zhu (FIO, China);
4. SPEAR – Sustainable options for People, catchment and Aquatic Resources. EU Framework VI. INCO-DEV Contract N<sup>o</sup> INCO-CT-2004-510706. Concluded (2004-2008). Coordinator: J.G. Ferreira, FCT-UNL, Portugal;
5. ECASA – Ecosystem Approach for Sustainable Aquaculture. EU Framework VI. Contrato 006540 (SSP8). Concluded (2004-2007). Participation in the ecological modelling work programme. Coordinator: K. Black, Scottish Association of Marine Science, U.K.;
6. KEYZONES – To investigate sustainable biological carrying capacities of key European coastal zones. EU Framework VI. CRAFT. Concluded (2005-2007). Participation in the ecological modelling work programme. Coordinator: D. Gowland, North Bay Shellfish, U.K.;
7. C2C – CatchmentToCoast. EU Framework V: INCO-DEV ICA4-2001-10136. Participation in the ecological modelling work programme. Concluded (2002-2005) – Coordinator: M. Marchand, Delft Hydraulics, Netherlands;
8. National Estuarine Eutrophication Assessment Update. Development of a long-term monitoring and assessment program for U.S. estuaries and coastal waters. NOAA, U.S.A. In progress (since 2002) – Coordinator: S.B. Bricker, NOAA, U.S.A.;
9. Carrying Capacity of Saldanha Bay, South Africa for Mussel Culture. NORAD, South Africa. Concluded (2001-2003) – Coordinator: J. Bailey, MCM, South Africa;
10. OAERRE - Oceanographic Applications to Eutrophication in Regions of Restricted Exchange. EU Framework V: Environment UE EVK3-CT-1999-00002. Coordination of Workpackage 6 - Screening Models and Policy. Concluded (2000-2003) – Coordinator: P. Tett, U. Napier, U.K.;
11. Carrying Capacity and Impact of Aquaculture on the Environment in Chinese Bays. UE: INCO-DC ERBIC4-CT98-0291. Responsible for the ecological modelling work programme in Sanggou Bay. Concluded (1999-2002) – Coordinator: C. Bacher, IFREMER, France;
12. EUROSAM - European Salt Marsh Modelling. EEC: Environment ENV4-CT97-0436. Responsible for the ecological modelling work programme in the Tagus estuary. Concluded (1997-2000) – Coordinator: J.C. Lefeuvre, U. Rennes, France;
13. Trophic Capacity of Coastal Zones for Culture of Oysters, Mussels and Cockles. EEC: CON-AIR32219, AIR Concerted Action. Concluded (1996-1997) – Coordinator: B. Bayne, PML, United Kingdom;
14. MARE - Microalgae in the Adriatic Region. EEC: ENVIRONMENT EV5V-CT92-0215. Responsible for the ecological modelling work programme. Concluded (1992-1995) – Coordinator: E. Funari, ISS, Italy;

15. Development of an Ecological Model for Mollusc Rearing Areas in Ireland and Greece. EEC: FAR AQ2516. Responsible for the ecological modelling work programme. Concluded (1991-1994) – Coordinator: B. Keegan, UCG, Irlanda.

### **National (Portugal)**

1. FESTA II – Funcionamento do Estuário do Tejo e Plataforma Associada. FCT/MCT. Concluded ( 2001-2003) – Coordinator: M.J.Costa, FCUL;
2. REALTIME - Integrated Real Time Modelling and Data Acquisition for Coastal Management. FCT/MCT PDCTM. In progress ( 2001-2003) – Coordinator: R. Neves, IST;
3. FESTA – Funcionamento do Estuário do Tejo e Plataforma Associada. FCT/MCT. Concluded (1996-1999) – Coordinator: A.M. Bettencourt, U. Évora;
4. ECOTEJO98 - Desenvolvimento de um sub-modelo para a Cala do Norte do Estuário do Tejo. Solvay/FCT/IMAR. Concluded (1996-1999) - Coordinator: J.G. Ferreira;
5. Programa Plurianual – Centro de Modelação Ecológica da FCT no IMAR, Instituto do Mar. JNICT/FCT. In progress - Coordinator: J.G. Ferreira;
6. Simulação de problemas ambientais utilizando tecnologias digitais MULTIMEDIA. JNICT. Concluded (1991-1994) – Coordinator: A. Câmara, FCT-UNL;
7. Desenvolvimento de um modelo para a gestão de lagoas costeiras. JNICT. Concluded (1995-1998) – Coordinator: P. Duarte, UFP;
8. ECOTEJO - Desenvolvimento de um sub-modelo para a Cala do Norte do Estuário do Tejo. JNICT/DRARN-LVT/IPIMAR/Solvay. Concluded (1993-1996) - Coordinator: J.G. Ferreira;
9. Programa CIÊNCIA – Creation of the Research Centre for Marine Science and Technology at FCT, of IMAR, Institute of Marine Research. Concluded (1992-1994) - Coordinator: J.G. Ferreira;
10. Desenvolvimento de um modelo ecológico para o Estuário do Tejo. JNICT PMCT. Concluded (1991-1994) - Coordinator: J.G. Ferreira;

### **Publications**

#### **Peer-reviewed journals**

1. A.M. Cubillo, J.G. Ferreira, S.M.C. Robinson, C.M. Pearce, R.A. Corner, and J. Johansen 2016. Role of deposit feeders in integrated multi-trophic aquaculture - a model analysis. *Aquaculture*,453, 54-66. (SCI Impact factor:1.374)
2. J.G. Ferreira, S.B. Bricker 2015. Goods and services of extensive aquaculture: shellfish culture and nutrient trading. *Aquaculture International*, DOI 10.1007/s10499-015-9949-9 (SCI Impact factor:0.568)
3. R. Filgueira, C. J. Byron, L. A. Comeau, B. Costa-Pierce, P. J. Cranford, J. G. Ferreira, J. Grant, T. Guyondet, H. M. Jansen, T. Landry, C. W. McKindsey, J. K. Petersen, G. K. Reid, S. M. C. Robinson, A. Smaal, R. Sonier, Ø. Strand, T. Strohmeier 2015. An integrated ecosystem approach for assessing the potential role of cultivated bivalve shells as part of the carbon trading system. *Mar. Ecol. Prog. Ser.* 518:281-287 (SCI Impact factor:2.315)
4. M.J. Botelho, C. Vale, J.G. Ferreira 2015. Profiles of paralytic shellfish toxins in bivalves of low and elevated toxicities following exposure to *Gymnodinium catenatum* blooms in Portuguese estuarine and coastal waters. *Chemosphere*, <http://dx.doi.org/10.1016/j.chemosphere.2014.12.072> (SCI Impact factor:2.297)
5. J. Rose, S.B. Bricker, J.G. Ferreira 2015. Comparative analysis of modeled nitrogen removal by shellfish farms. *Mar. Pollut. Bull.* 91 (1), 185-190. (SCI Impact factor:1.831)
6. J.G. Ferreira, C. Saurel, J.D. Lencart e Silva, J.P. Nunes, F. Vazquez 2014. Modelling of interactions between inshore and offshore aquaculture. *Aquaculture*, 426–427, 154-164. (SCI Impact factor:1.374)

7. Botelho, M.J., Raimundo, J., Vale, C., Ferreira, J.G. 2014. Partitioning of paralytic shellfish toxins in sub-cellular fractions of the digestive gland of the cockle *Cerastoderma edule*: Changes under post-bloom natural conditions. *Ecotoxicology and Environmental Safety* 104,365-372. (SCI Impact factor:2.022)
8. J.G. Ferreira, L. Falconer, J. Kittiwanch, L. Ross, C. Saurel, K. Wellman, C.B. Zhu, P. Suvanachai 2014. Analysis of production and environmental effects of Nile tilapia and white shrimp culture in Thailand. *Aquaculture*,447, 23-36. (SCI Impact factor:1.374)
9. C. Saurel, J.G. Ferreira, D. Cheney, A. Suhrbier, B. Dewey, J. Davis, J. Cordell 2014. Ecosystem goods and services from Manila clam culture in Puget Sound: a modelling analysis. *Aquaculture Environment Interactions*, 5, 255-270. (SCI Impact factor:2.37)
10. A. Borja, M. Elliott, J.H. Andersen, J. Carstensen, A.C. Cardoso, J.G. Ferreira, A.S. Heiskanen, J.C. Marques, J. Neto, H. Teixeira, M.C. Uyarra, L. Uusitalo, N. Zampoukas 2013. Good Environmental Status of marine ecosystems: What is it and how do we know when we have attained it? *Mar. Pol. Bull.*, 76, 16-27. (SCI Impact factor:1.831)
11. M.J. Botelho, C. Vale, R. Velez Grilo, J.G. Ferreira 2012. Uptake and release of paralytic shellfish toxins by the clam *Ruditapes decussatus* exposed to *Gymnodinium catenatum* and subsequent depuration. *Marine Environmental Research* 77 (2012) 23-29 (SCI Impact factor:1.611)
12. Ferreira, J.G., Saurel, C., Ferreira, J.M. 2012. Cultivation of gilthead bream in monoculture and integrated multi-trophic aquaculture. Analysis of production and environmental effects by means of the FARM model. *Aquaculture*, 358–359, p. 23–34. (SCI Impact factor:1.374)
13. Nobre A.M., Bricker S.B., Ferreira J.G., Yan X., de Wit M., Nunes J.P. 2011. Integrated environmental modelling and assessment of coastal ecosystems, application for aquaculture management. *Coastal Management*, Volume 39 (5). (SCI Impact factor:0.426)
14. C. Silva, J.G. Ferreira, S.B. Bricker, T. A. DelValls, M.L. Martín-Díaz and E. Yañez 2011. Site selection for shellfish aquaculture by means of GIS and farm-scale models, with an emphasis on data-poor environments. *Aquaculture*, 318, 444-457. (SCI Impact factor:1.374)
15. J.G. Ferreira, J.H. Andersen, A. Borja, S.B. Bricker, J. Camp, M. Cardoso da Silva, E. Garcés, Anna-Stiina Heiskanen, C. Humborg, L. Ignatiades, C. Lancelot, A. Menesguen, P. Tett, N. Hoepffner, U. Claussen 2011. Overview of eutrophication indicators to assess environmental status within the European Marine Strategy Framework Directive. *Estuarine Coastal and Shelf Science*, 93, 117-131. (SCI Impact factor:1.633)
16. J. P. Nunes, J. G. Ferreira, S. B. Bricker, B. OLoan, T. Dabrowski, B. Dallaghan, A. J. S. Hawkins, B. OConnor, T. OCarroll. 2011. Towards an ecosystem approach to aquaculture: assessment of sustainable shellfish cultivation at different scales of space, time and complexity. *Aquaculture*, 315, 369-383. (SCI Impact factor:1.374)
17. Nobre, A.M., Ferreira, J.G., Nunes, J.P., Yan, X., Bricker, S., Corner, R., Groom, S., Gu, H., Hawkins, A.J.S., Hutson, R., Lan, D., Lencart e Silva, J.D., Pascoe, P., Telfer, T., Zhang, X., Zhu, M. 2010. Assessment of coastal management options by means of multilayered ecosystem models. *Estuarine Coastal and Shelf Science*, 87(1): 43-62 (SCI Impact factor:1.633)
18. J.G. Ferreira, A. Sequeira, A.J.S. Hawkins, A. Newton, T. Nickell, R. Pastres, J. Forte, A. Bodoy, S.B. Bricker 2009. Analysis of coastal and offshore aquaculture: application of the FARM model to multiple systems and shellfish species. *Aquaculture*, 289, 32-41. (SCI Impact factor:1.374)

19. A.M. Nobre, J.K. Musango, M.P. de Wit, J.G. Ferreira 2009. A dynamic ecological-economic modeling approach for aquaculture management. *Ecological Economics*, 68(12):3007-3017 (SCI Impact factor:1.179)
20. A.M. Nobre, J.G. Ferreira 2009. Integration of ecosystem-based tools to support coastal zone management. *Journal of Coastal Research*, SI 56: 1676-1680. (SCI Impact factor:0.678)
21. Borja, A., Bricker, S.B., Dauer, D.M., Demetriades, N.T., Ferreira, J.G., Forbes, A.T., Hutchings, P., Jia, X., Kenchington, R., Marques, J.C., Zhu, C.B. 2008. Overview of integrative tools and methods in assessing ecological integrity in estuarine and coastal systems worldwide. *Mar. Pol. Bull.*, 56, 1519–1537. (SCI Impact factor:1.831)
22. A. Sequeira, J.G. Ferreira, A.J. Hawkins, A. Nobre, P. Lourenço, X.L. Zhang, X. Yan, T. Nickell 2008. Trade-offs between shellfish aquaculture and benthic biodiversity: A modelling approach for sustainable management. *Aquaculture*, 274, 313-328 (SCI Impact factor:1.374)
23. J.G. Ferreira, A.J.S. Hawkins, P. Monteiro, H. Moore, M. Service, P.L. Pascoe, L. Ramos, A. Sequeira 2008. Integrated Assessment of Ecosystem-Scale Carrying Capacity in Shellfish Growing Areas. *Aquaculture*, 275, 138-151. (SCI Impact factor:1.374)
24. J.G. Ferreira, S.B. Bricker, T.C. Simas 2007. Application and sensitivity testing of an eutrophication assessment method on coastal systems in the United States and European Union. *J. Environmental Management*, 82, 433-445 (SCI Impact factor:1.163)
25. J. G. Ferreira, A.J.S. Hawkins, S.B. Bricker 2007. Management of productivity, environmental effects and profitability of shellfish aquaculture - the Farm Aquaculture Resource Management (FARM) model. *Aquaculture*, 264, 160-174. (SCI Impact factor:1.374)
26. J. G. Ferreira, C. Vale, C.V. Soares, F.Salas, P.E. Stacey, S. B. Bricker, M.C. Silva, J.C. Marques 2007. Monitoring of coastal and transitional waters under the EU Water Framework Directive. *Environmental Monitoring and Assessment*, 135 (1-3), 195-216. (SCI Impact factor:0.687)
27. Martins, I., Lopes, R.J., Lillebø, A.I., Neto, J.M., Pardal, M.A., Ferreira, J.G., Marques, J.C. 2007. Significant variations in the productivity of green macroalgae in a mesotidal estuary: implications to the nutrient loading of the system and the adjacent coastal area. *Marine Pollution Bulletin*, 54 (6), 678-690 (SCI Impact factor:1.831)
28. Xiao Y., Ferreira J.G., Bricker S.B., Nunes J.P., Zhu M., Zhang X. 2007. Trophic Assessment in Chinese Coastal Systems - Review of methodologies and application to the Changjiang (Yangtze) Estuary and Jiaozhou Bay. *Estuaries and Coasts* 30 (6): 901-918. (SCI Impact factor:1.284)
29. D. Whittall, S. B. Bricker, J. G. Ferreira, A. M. Nobre, T. Simas, M. C. Silva 2007. Assessment of Eutrophication in Estuaries: Pressure-State-Response and Nitrogen Source Apportionment. *Journal of Environmental Management*, Vol. 40, 678-690 (SCI Impact factor:1.163)
30. T. C. Simas, J. G. Ferreira 2007. Nutrient enrichment and the role of salt marshes in the Tagus estuary (Portugal). *Estuarine Coastal and Shelf Science*, Vol. 75, N. 3, 393-407 (SCI Impact factor:1.633)
31. Ferreira, J. G., A. M. Nobre, T. C. Simas, M. C. Silva, A. Newton, S. B. Bricker, W. J. Wolff, P.E. Stacey, A. Sequeira 2006. A methodology for defining homogeneous water bodies in estuaries - Application to the transitional systems of the EU Water Framework Directive. *Estuarine, Coastal and Shelf Science*, 66 (3/4), 468-482. (SCI Impact factor:1.633)

32. A. R. Franco, J. G. Ferreira, A. M. Nobre 2006. Development of a growth model for penaeid shrimp. *Aquaculture*, 259, 268-277. (SCI Impact factor:1.374)
33. S.B. Bricker, J.G. Ferreira, T.C. Simas 2005. Reply to "Comment on the deduction of equations for the determination of anthropogenic influence for assessment of estuarine trophic status". *Ecological Modelling*, 185, 2-4, 549-550 (SCI Impact factor:1.7)
34. Ferreira, J.G., W.J. Wolff, T.C. Simas, S.B. Bricker 2005. Does biodiversity of estuarine phytoplankton depend on hydrology? *Ecological Modelling*, Vol. 187, N. 4, 513-523 (SCI Impact factor:1.7)
35. Nobre, A.M., J.G. Ferreira, A. Newton, T. Simas, J.D. Icely, R. Neves 2005. Management of coastal eutrophication: Integration of field data, ecosystem-scale simulations and screening models. *Journal of Marine Systems*, 56 (3/4), 375-390. (SCI Impact factor:1.225)
36. Nunes J.P, Ferreira J.G., Gazeau F., Lencart-Silva J., Zhang X.L, Zhu M.Y., Fang J.G. 2003. A model for sustainable management of shellfish polyculture in coastal bays. *Aquaculture* 219 (1-4): 257-277. (SCI Impact factor:1.374)
37. Newton A., Icely J.D., Falcão M., Nobre A., Nunes J.P., Ferreira J.G., Vale C. 2003. Evaluation of Eutrophication in the Ria Formosa coastal lagoon, Portugal. *Continental Shelf Research* 23: 1945-1961. (SCI Impact factor:1.694)
38. Bricker, S.B., J.G. Ferreira, T. Simas 2003. An Integrated Methodology for Assessment of Estuarine Trophic Status. *Ecological Modelling*, 169(1), 39-60 (SCI Impact factor:1.7)
39. Alvera-Azcarate A., Ferreira J.G., Nunes J.P. 2003. Modelling eutrophication in mesotidal and macrotidal estuaries. The role of intertidal seaweeds. *Estuarine, Coastal and Shelf Science* 57 (4): 715-724. (SCI Impact factor:1.633)
40. Tett, P., Gilpin, L., Svendsen, H., Erlandsson, C.P., Larsson, U., Kratzer, S., Foulland, E., Janzen, C., Lee, J., Grenz, C., Newton, A., Ferreira, J.G., Fernandes, T., & Scory, S., 2003. Eutrophication and some European waters of restricted exchange. *Continental Shelf Research*, 23, 1635-1671). (SCI Impact factor:1.694)
41. Macedo, M. F., Duarte, P., & Ferreira, J. G. 2002. The influence of incubation periods on photosynthesis-irradiance curves. *J. Exp. Mar. Biol. Ecol.*, 274 (2), 99-118 (SCI Impact Factor: 1.469). (SCI Impact factor:1.66)
42. Macedo, M.F., Duarte, P., Mendes P., & Ferreira, J.G. 2001. Annual variation of environmental variables, phytoplankton species composition and photosynthetic parameters in a coastal lagoon. *Journal of Plankton Research*, 23 (7), 719-732. (SCI Impact factor:1.365)
43. T. Simas, A. P. Ribeiro, J. G. Ferreira 2001. SHRIMP - A dynamic model of heavy metal uptake in aquatic macrofauna. *Environmental Toxicology and Chemistry*, Vol. 20, N. 11, 2649-2656. (SCI Impact factor:2.414)
44. Simas T., Nunes J.P., Ferreira J.G. 2001. Effects of global climate change on coastal salt marshes. *Ecological Modelling* 139 (1): 1-15. (SCI Impact factor:1.7)
45. Macedo, M. F., Duarte, P., Ferreira, J. G., Alves, M., & Valentina, C. 2000. Analysis of the deep chlorophyll maximum across the Azores Front. *Hydrobiologia*, 441 (1/3), 155-172. (SCI Impact factor:0.978)
46. Ferreira, J.G. 2000. Development of an estuarine quality index based on key physical and biogeochemical features. *Ocean & Coastal Management*, 43 (1), 99-122. (SCI Impact factor:1.228)
47. Macedo, M.F., Ferreira, J.G., & Duarte, P. 1998. Dynamic behaviour of photosynthesis-irradiance curves determined from oxygen production during variable incubation periods. *Mar. Ecol. Prog. Series*, 165, 31-43. (SCI Impact factor:2.315)



48. Carvalho, M.L., Ferreira, J. G., Amorim, P., Marques, M.I.M., & Ramos, M.T. 1997. Study of Heavy Metals in Macrophyte Algae Using Energy-Dispersive X-Ray Fluorescence. *Environmental Toxicology and Chemistry*, 16 (4), 807-812. (SCI Impact factor:2.414)
49. Bacher, C., Duarte, P., Ferreira, J.G., Héral, M., & Raillard, O. 1997. Assessment and comparison of the of the Marennes-Oléron Bay (France) and Carlingford Lough (Ireland) carrying capacity with ecosystem models. *Aquatic Ecology*, 31 (4), 379-394. (SCI Impact factor:0.779)
50. Duarte, P., & Ferreira, J.G. 1997. A model for the simulation of macroalgal population dynamics and productivity. *Ecol. Modelling*, 98, 199-214. (SCI Impact factor:1.7)
51. Duarte, P., & Ferreira, J.G. 1997. Dynamic modelling of photosynthesis in marine and estuarine ecosystems. *Environmental Modeling and Assessment*, 2, 83-93. (SCI Impact factor:0.654)
52. Ferreira, J.G., Duarte, P., & Ball, B. 1997. Trophic Capacity of Carlingford Lough for Aquaculture - Analysis by Ecological Modelling. *Aquatic Ecology*, 31 (4), 361-378. (SCI Impact factor:0.779)
53. Duarte, P., & Ferreira, J.G. 1995. Seasonal adaptation and short-term metabolic responses of macroalgae to varying light and temperature. *Mar. Ecol. Prog. Series*, 121, 289-300. (SCI Impact factor:2.315)
54. Ferreira, J.G. 1995. EcoWin - An object-oriented ecological model for aquatic ecosystems. *Ecol. Modelling*, 79, 21-34. (SCI Impact factor:1.7)
55. Duarte, P., & Ferreira, J.G. 1993. A methodology for parameter estimation in seaweed productivity modelling. *Hydrobiologia*, 260/261, 183-189. (SCI Impact factor:0.978)
56. Ferreira, J.G. 1991. Factors governing mercury accumulation in three species of marine macroalgae. *Aquatic Botany* 39, 335-343. (SCI Impact factor:1.344)
57. Ferreira, J.G., & Ramos, L. 1989. A model for the estimation of annual production rates of macrophyte algae. *Aquatic Botany*, 33, 53-70. (SCI Impact factor:1.344)
58. Rodrigues, A.C., Silva, M.C., Câmara, A.S., Fernandes, T.F., & Gomes Ferreira, J. 1988. Dispersion modelling for a complex estuary - The case of the Tagus. *Water Sci. & Tech.*, 20 (6/7), 271-276. (SCI Impact factor:0.875)
59. Câmara, A.S., Silva, M.C., Ramos, L., & Ferreira, J.G. 1987. TEJO1 - An interactive program for the division of estuaries into homogeneous areas. *Water Sci. & Tech.*, 19, 43-51. (SCI Impact factor:0.875)

### **Books**

1. A.C. Smaal, J.G. Ferreira, J.G. Grant, J.K. Petersen, Ø Strand (Editors) In Prep. *Goods and Services of Marine Bivalves*. Author list draws on world experts in this field. Springer, 2016-2017.
2. J.G. Ferreira, C. Saurel, J.P. Nunes, L. Ramos, J.D. Lencart e Silva, F. Vazquez, Ø. Bergh, W. Dewey, A. Pacheco, M. Pinchot, C. Ventura Soares, N. Taylor, W. Taylor, D. Verner-Jeffreys, J. Baas, J.K. Petersen, J. Wright, V. Calixto, M. Rocha, 2012. *FORWARD. Framework for Ria Formosa Water Quality, Aquaculture, and Resource Development*. Ed. IMAR - Institute of Marine Research, 2012. 220 pp.
3. J.G. Ferreira, H.C. Andersson, R.A. Corner, X. Desmit, Q. Fang, E.D. de Goede, S.B. Groom, H. Gu, B.G. Gustafsson, A.J.S. Hawkins, R. Hutson, H. Jiao, D. Lan, J. Lencart-Silva, R. Li, X. Liu, Q. Luo, J.K. Musango, A.M. Nobre, J.P. Nunes, P.L. Pascoe, J.G.C. Smits, A. Stigebrandt, T.C. Telfer, M.P. de Wit, X. Yan, X.L. Zhang, Z. Zhang, M.Y. Zhu, C.B. Zhu, S.B.

- Bricker, Y. Xiao, S. Xu, C.E. Nauen, M. Scalet, 2008. Sustainable Options for People, Catchment and Aquatic Resources. The SPEAR Project, an International Collaboration on Integrated Coastal Zone Management. Ed. IMAR - Institute of Marine Research/European Commission, 2008. 180 pp.
4. J.G. Ferreira, A.J.S. Hawkins, P. Monteiro, H. Moore, M. Service, A. Edwards, R. Gowen, P. Lourenco, A. Mellor, J.P. Nunes, P.L. Pascoe, L. Ramos, A. Sequeira, T. Simas, J. Strong, 2007. SMILE - Sustainable Mariculture in northern Irish Lough Ecosystems. Assessment of Carrying Capacity for Environmentally Sustainable Shellfish Culture in Carlingford Lough, Strangford Lough, Belfast Lough, Larne Lough and Lough Foyle. Ed. IMAR - Institute of Marine Research, 2007. 100 pp.
  5. J.G. Ferreira, A. Bettencourt, S.B. Bricker, J.C. Marques, J.J. Melo, A. Newton, A. Nobre, J. Patrício, F. Rocha, R. Rodrigues, F.Salas, M.C. Silva, T.Simas, C.V. Soares, P. Stacey, C. Vale, M. De Wit, W.J. Wolff, 2005. Monitoring Plan for Water Quality and Ecology of Portuguese Transitional and Coastal Waters. Development of guidelines for the application of the European Union Water Framework Directive. INAG/IMAR, 2005.
  6. Bettencourt, A., Bricker, S.B., Ferreira, J.G., Franco, A., Marques, J.C., Melo, J.J., Nobre, A., Ramos, L., Reis, C.S., Salas, F., Silva, M.C., Simas, T., & Wolff, W.J., 2003. Typology and Reference Conditions for Portuguese Transitional and Coastal Waters. Development of guidelines for the application of the European Union Water Framework Directive. INAG/IMAR, 2003.
  7. Bettencourt, A.M., Gomes, F.V., Dias, J.A., Ferreira, J.G., Silva, M.C., & Costa, J.L., 2003. PNA-EE: Plano Nacional da Água, Ecossistemas Aquáticos, Estuários e Águas Costeiras. Ed. A.M. Bettencourt & L. Ramos, INAG, 2003.
  8. Ferreira, J.G., Simas, T., Nobre, A., Silva, M.C., Schifferegger, K., & Lencart-Silva, J., 2003. Identification of Sensitive Areas and Vulnerable Zones In Transitional and Coastal Portuguese Systems. Application of the United States National Estuarine Eutrophication Assessment to the Minho, Lima, Douro, Ria de Aveiro, Mondego, Tagus, Sado, Mira, Ria Formosa and Guadiana systems. INAG/IMAR, 2003.
  9. Ferreira, J.G., Simas, T., Schifferegger, K., & Lencart-Silva, J., 2002. Identification of Sensitive Areas and Vulnerable Zones In Four Portuguese Estuaries: Application of the United States National Estuarine Eutrophication Assessment to the Mira, Mondego, Sado and Tagus Estuaries. INAG/IMAR, 2002.
  10. Gomes Ferreira, J., 1989. Mercúrio em algas macrófitas do Estuário do Tejo. Ph.D. dissertation presented to the New University of Lisbon. Author edition, Lisbon, 1989.

#### **Book chapters**

1. J.M. Rose, S.B. Bricker, S. Deonaraine, J.G. Ferreira, T. Getchis, J.G. Grant, J.K. Kim, J.S. Krumholz, G.P. Kraemer, K. Stephenson, G.H. Wikfors, C. Yarish 2016. Nutrient Bioextraction. Encyclopedia of Sustainability Science and Technology, Robert A. Meyers, Ed. in Chief. Springer, due 2018.
2. Joao G. Ferreira, Jon Grant, David Verner-Jeffreys, Nick Taylor 2012. Modeling Frameworks for Determination of Carrying Capacity for Aquaculture. Encyclopedia of Sustainability Science and Technology, Volume I. Robert A. Meyers, Ed. in Chief. Springer, 2012, 12677 pp.
3. Ferreira, J.G., J. Aguilar-Manjarrez, C. Bacher, K. Black, S.L. Dong, J. Grant, E.Hofmann, J. Kapetsky, P.S. Leung, R. Pastres, Ø. Strand, C.B. Zhu 2012. Progressing aquaculture through virtual technology and decision making tools for novel management. In FAO/NACA, 2012. Farming the Waters for People and Food. R.P. Subasinghe, J.R. Arthur, D.M. Bartley,

S.S. De Silva, M. Halwart, N. Hishamunda, C.V. Mohan & P. Sorgeloos, (Eds.) Proceedings of the Global Conference on Aquaculture 2010, Phuket, Thailand. 22–25 September 2010. FAO, Rome and NACA, Bangkok, p. 643-704.

4. J.G. Ferreira, L. Ramos, B.A. Costa-Pierce 2011. Key drivers and issues surrounding carrying capacity and site selection, with emphasis on environmental components. *In* Ross, L.G., Telfer, T.C., Falconer, L., Soto, D. & Aguilar-Manjarrez, J., eds. 2013. Site selection and carrying capacities for inland and coastal aquaculture. FAO/Institute of Aquaculture, University of Stirling, Expert Workshop, 6–8 December 2010. Stirling, the United Kingdom of Great Britain and Northern Ireland. FAO Fisheries and Aquaculture Proceedings No. 21. Rome, FAO. 46 pp.
5. Ferreira J.G., Hawkins, A.J.S., Bricker, S., B., 2011. The role of shellfish farms in provision of ecosystem goods and services. *In*: S. Shumway, 2011. Molluscan Shellfish Aquaculture and the Environment. Wiley-Blackwell, 507 pp.
6. Ferreira J.G., Simas, M.T., 2007. Eutrophication case study for the Mondego Estuary. *In*: Bricker, S., B. Longstaff, W. Dennison, A. Jones, K. Boicourt, C. Wicks and J. Woerner, 2007. Effects of Nutrient Enrichment in the Nation's Estuaries: A Decade of Change, National Estuarine Eutrophication Assessment Update. NOAA Coastal Ocean Program Decision Analysis Series No. 26. National Centers for Coastal Ocean Science, Silver Spring, MD. 328 pp.
7. Nunes, L., & Ferreira, J.G., 1994. Modelling pathways of metal uptake in the Cala do Norte: Spatial patterns of distribution of metals in sediments. *In* Advances in Water Resources Technology and Management. Eds. G. Tsakiris & M. A. Santos, Balkema, 465-474.
8. Ferreira, J.G., & Oliveira, J.F.S., 1988. Spatial and temporal variation of mercury levels in macrophyte algae from the Tagus Estuary. *In* Heavy metals in the hydrological cycle. M. Astruc & J.N. Lester, Eds., 241-248.
9. Martins, M.M., Moita, M.T., & Gomes Ferreira, J., 1982. Interrelation of phytoplankton and physico-chemical data in the Tejo Estuary. *In* Estuarine Processes - An Application to the Tejo Estuary. UNESCO/CNA (DGQA), 1984, 337-367.

#### **Conference proceedings**

1. Ferreira, J.G., 1996. Tagus Estuary - Ecological Modelling and System Analysis. ASMO Modelling Workshop on Eutrophication. The Hague, 5-8 November 1996.
2. Ferreira, J.G., & Duarte, P., 1994. Productivity of the Tagus Estuary - An application of the EcoWin ecological model. *Gaia*, 8, 89-95.
3. Martins, M., Gomes Ferreira, J., Calvão, T., & Figueiredo, H., 1984. Nutrientes no Estuário do Tejo - comparação da situação em caudais médios e de cheia, com destaque para alterações na qualidade da água. I Simpósio Luso-Brasileiro de Engenharia Sanitária e Ambiental, APRH/ABESP, Lisbon, 26-28 September 1984.
4. Moita, M.T., Martins, M., & Gomes Ferreira, J., 1983. A regression model for chlorophyll *a* in the Tejo Estuary. *Cuadernos da Área de Ciências Marinas, Seminário de Estudos Galegos*, 1, 151-162.

#### **Abstract book or poster publications in conferences**

1. J.G. Ferreira, N. Taylor, N. McPherson, J. Lencart e Silva, R. Pastres. 2016. The ABC of aquaculture—combining production and disease modelling into an effective management tool for farmers and environmental agencies. Accepted for oral, Aquaculture Europe 2016, September 2016, Edinburgh, United Kingdom.

2. R.G. Ferreira, J.G. Ferreira, R. White, R.A. Corner, W.F. Dewey, J.G. Grant, J. Johansen. 2016. A multimetric investor index for aquaculture – application to the European Union. Accepted for oral, Aquaculture Europe 2016, September 2016, Edinburgh, United Kingdom.
3. J.G. Ferreira, H. Moore, P. Boylan, C. Jordan, J.D. Lencart-Silva, C. McGonigle, S. McLean, J.P. Nunes, M. Service, C.B. Zhu. 2016. Beyond the High Water Mark: Application of an ecosystem model framework for Integrated Catchment Management in Lough Foyle. World Aquaculture Society, Aquaculture 2016, Las Vegas, Nevada, Feb 2016.
4. S.B. Bricker, J.G. Ferreira, C.B. Zhu, J. Rose, E. Galimany, G. Wikfors, C. Saurel, R. Landeck Miller, J. Wands, K. Wellman, R. Rheault, P. Trowbridge, R. Grizzle, J. Steinberg, A. Jacob, E. Davenport, S. Ayvazian, M. Chintala, M. Tedesco. 2016. Shellfish Aquaculture for Seafood Production and Water Quality Improvement. World Aquaculture Society, Aquaculture 2016, Las Vegas, NV, Feb 2016.
5. J.G. Ferreira 2016. Invited talk. Application of a multi-model framework for integrated ecosystem management in Lough Foyle. EAAP 2016, 67th Annual Meeting of the European Federation of Animal Science. Belfast, Aug-Sept 2016.
6. J.G. Ferreira, S.B. Bricker. 2015. Nitrogen Remediation Through Shellfish Aquaculture - A Model Analysis. Aquaculture Europe 2015, October 2015, Rotterdam, Netherlands.
7. A.M. Cubillo, J.G. Ferreira, R. Marshall, C.M. Pearce, D.P. Cheney, B. Hudson, A.D. Suhrbier, W.F. Dewey, P. Becker, S. Wysocki. 2015. Ecosystem goods and services of geoduck farming in South Puget Sound: A modelling analysis. Aquaculture Europe 2015, October 2015, Rotterdam, Netherlands.
8. J.G. Ferreira, 2014. Virtual oysters, real food – How models help manage shellfish carrying capacity. National Shellfish Association 109<sup>th</sup> meeting – Jacksonville USA, March 2014. Plenary talk.
9. Saurel, C., Ferreira, J.G., Petersen, J.K., 2014. From shellfish feeding to carrying capacity modelling. National Shellfish Association 109<sup>th</sup> meeting – Jacksonville USA, March 2014.
10. Joao G. Ferreira, R.A. Corner, J. Johansen, A.M. Cubillo 2014. Environmental effects of Atlantic salmon cage culture - Modelling of growth and mitigation in IMTA. Aquaculture Europe 2014, October 2014, San Sebastian, Spain.
11. A.M. Cubillo, Joao G. Ferreira, Shawn M.C. Robinson, Christopher M. Pearce 2014. Role of Deposit Feeders in Integrated Multi-Trophic Aquaculture - A Model Analysis. European Aquaculture Society. Aquaculture Europe 2014, October 2014, San Sebastian, Spain.
12. J.G. Ferreira, 2013. Seaweed and mussel placement for IMTA: using local scale models to assess production and environmental effects in intensive and extensive culture systems. Plenary talk, CIMTAN, Canada.
13. L. Brandão, J.G. Ferreira, C. Saurel, C. Stenberg, A. Estanqueiro, 2013. Analysis of the Potential of Aquaculture Structures within Wind Farms. Aquaculture - The Next 40 years, Gran Canaria, 2013.
14. J.G. Ferreira, J. Kittiwanch, C. Saurel, L. Ross, J. Aguilar-Manjarrez, K. Wellman, C.B. Zhu 2013. Growing Tilapia In Thailand – The Next Forty Years. FARM Model Analysis Of Production and Environmental Effects In Monoculture and IMTA. Aquaculture - The Next 40 years, Gran Canaria, 2013. Oral presentation.
15. J.G. Ferreira, J.D. Lencart e Silva, J.P. Nunes, C. Saurel, F. Vazquez, Ø. Bergh, N. Taylor, D. Verner-Jeffreys. 2013. Moving FORWARD with IMTA Interactions between offshore IMTA and inshore aquaculture. Aquaculture 2013 – Nashville, USA, 21-25 February 2013. Oral presentation.

16. C. Saurel, J.G. Ferreira, J. Lencart e Silva, J. P. Nunes, L. Ramos, F. Vazquez 2013. Integrated modelling of goods and services provided by aquaculture to coastal systems. TWAM, Aveiro Portugal 16-20 March 2013 Oral presentation.
17. J.G. Ferreira, D. Cheney, C. Saurel, W.F. Dewey, A.D. Suhrbier, J.P. Davis, S.B. Bricker 2013. Model Farming–Sustainability analysis of Manila Clam farming in the Pacific Northwest, in terms of production, environmental effects, and optimization. Aquaculture 2013 – Nashville, USA, 21-25 February 2013. Oral presentation.
18. W.F. Dewey, D.P. Cheney, A.D. Shurbier, J.G. Ferreira, J.R. Cordell, J.P. Davis. 2012. Manila clam farming: comparison of mechanical and hand-harvest methods. National Shellfish Association 104th Annual Meeting. Seattle, WA, USA.
19. J.G. Ferreira, D.P. Cheney, C. Saurel, W.F. Dewey, A.D. Shurbier, J.P. Davis, P. Becker. 2012. Manila clam farming in North Puget Sound - Analysis by means of the FARM model . National Shellfish Association 104th Annual Meeting. Seattle, WA, USA.
20. N. Taylor, C. Saurel, D.W. Verner-Jeffreys L. Asplin, Ø. Bergh, J. Ferreira, A. D. Sandvik, K. Soma, C. Vale, A.P. van Duijn, J.D. Lencart e Silva 2012. Management strategies: impact on health in aquaculture. 2012 ICES Annual Science Conference (ASC), 17-21 September, Bergen, Norway. Poster. C. Saurel, J.G. Ferreira, 2011. DEB individual growth model of clam implemented in FARM model for aquaculture. DEB Symposium, Lisboa 13-15 April, 2011. Poster.
21. J.G. Ferreira, S.B. Bricker, C.B. Zhu, M.J. Botelho, 2011. Beyond biomass: ecosystem interactions of eutrophication, with an emphasis on shellfish aquaculture and IMTA. LOICZ Open Science Conference 2011, Coastal Systems, Global Change and Sustainability. Invited Lecture. Yantai, China.
22. J.G. Ferreira, C.B. Zhu, C. Saurel, S.B. Bricker. C. Vale 2011. Modelling the role of bivalve shellfish in IMTA. Examples for shrimp ponds and offshore finfish cage culture. National Shellfish Association 103rd Meeting. Baltimore, US.
23. Joao G. Ferreira 2011. Offshore aquaculture. SEAFOOD FROM CROWDED SEAS. The role of marine spatial planning in sustainable, multiple use. Seafood Summit, Vancouver, Canada.
24. C. Saurel, J.G. Ferreira, C. Vale, M. Caetano, L. Ramos, M. J. Botelho, J. Lencart e Silva, D. Matias, J. P. Nunes, F. Soares, F. Vazquez, A. Furtado, V. Calixto 2010. FORWARD: Framework for Ria Formosa Water Quality. Aquaculture, And Resource Development. Aquaculture Europe 2010: “Seafarming tomorrow”, 5-8 October. Porto, Portugal. Poster.
25. Joao G. Ferreira 2010. Virtual Tools for Aquaculture. Application to Coastal and Offshore Systems. Invited keynote lecture, Aquaculture Europe 2010, Porto, Portugal.
26. F. Grati, G. Fabi, R. Gramolini E. B.ello Gomez, Ø. Bergh, P. Berthou, S. Bricker, E. Buisman, G. Burnell, N. Dankers, P. Dolmer, A. van Duijn, J. Ferreira, M. Fitzpatrick, J. Gault, O. Guayder, J.Grönroos, E. Hoefnagel, R. Jak, C. Karman, T. K.-Sørensen, 2010. COEXIST: Interaction in Coastal Waters: A Roadmap to Sustainable Integration of Aquaculture and Fisheries. French-japanese Symposium Kinki Ifremer 2010, 1 – 3 September. Sète, France. Poster.
27. Ferreira, J.G., J. Aguilar-Manjarrez, C. Bacher, K. Black, S.L. Dong, J. Grant, E.Hofmann, J. Kapetsky, P.S. Leung, R. Pastres, Ø. Strand, C.B. Zhu 2010. Progressing aquaculture through virtual technology and decisionmaking tools for novel management, pp. 91-93. Book of Abstracts, Global Conference on Aquaculture 2010, 22-25 September 2010. FAO/NACA/Thailand Department of Fisheries, Bangkok, Thailand.

28. J.G. Ferreira, J.H. Andersen, A. Borja, S.B. Bricker, J. Camp, E. Garcés, A.S. Heiskanen, C. Humborg, L. Ignatiades, C. Lancelot, A. Menesguen, M. C. Silva, P.Tett, N. Hoepffner, U. Claussen 2010. Marine Strategy Framework Directive: A tool for eutrophication assessment and management in marine waters. Plenary lecture. Eutro2010, Denmark.
29. S.B. Bricker, J.G. Ferreira, Y. Xiao, J.P. Nunes, X.L. Zhang, J. Zeng, C. Zhu, C. Lin, M. Zhu, W.D. Ji 2010. Trophic Assessment in Chinese Coastal Systems: A review and application of methods. Eutro2010, Denmark.
30. J.G. Ferreira, C.B. Zhu, S.B. Bricker 2009. Eutrophication and Aquaculture. La Vie en Rose? Eutrophication, Integrated Multi-Trophic Aquaculture, and Top-Down Control. ASLO 2009, France.
31. R. Pastres, Joao G. Ferreira, 2009. The role of models for the sustainable management of shellfish farming. Aquaculture Europe 09. August 14-17, Trondheim, Norway. Oral presentation
32. J.G. Ferreira, R. Pastres, A. Martinho, J.J. Melo, A. Oliveira, C. Saurel, C.V. Soares, C. Vale, P. Sarmiento-Coelho, M.H. Alves, M. Lacerda, D. Paulo, F. Reis 2009. Environmental sustainability of offshore aquaculture- Assessment using integrated modelling. Aquaculture Europe 09. August 14-17, Trondheim, Norway. Oral presentation.
33. J.G. Ferreira, R. Pastres, C. Saurel, C. Vale, S. Bricker 2009. Coastal Eutrophication and Offshore Shellfish Aquaculture- a modeling case study. 20th Biennial Conference of the Coastal and Estuarine Research Federation (CERF 2009). 1-5 November. Portland, Oregon US. Oral presentation.
34. Ferreira, J.G., 2009. Invited talk: Approaches to sustainable development of shellfish aquaculture. U.S. National Academy of Sciences Workshop. NAS, U.S.A., January 2009.
35. Nobre, A.M., Ferreira, J.G., 2008. An integrated ecological-economic analysis of macroalgal polyculture. 11th International Conference on Applied Phycology 22-27 June 2008, Galway, Ireland.
36. Nobre, A.M., Ferreira, J.G., de Wit, M.P., 2008. Ecological and economic assessment of Integrated Multi-Trophic (IMTA) aquaculture. 2008 ASLO Summer Meeting, 8-13 June 2008, St. John's, Newfoundland, Canada.
37. Nobre, A.M., Musango, J.K., Ferreira, J.G., de Wit M.P. 2008. A dynamic ecological-economic modeling approach for shellfish aquaculture management. In Aquaculture America 2008. Florida, USA. 9-12 February 2008.
38. Nunes J.P., Ferreira J.G., Zhu M.Y., Stigebrandt A., Lan D.Z., Smits J., de Wit M., Groom S., Hawkins T., Telfer T., Yan X.J. 2007. Modelling the transport of nutrients and carbon from catchment to coast - the SPEAR project. Geophysical Research Abstracts 9: 10622; proceedings of the EGU 2007 General Assembly, April 2007, Vienna.
39. Ferreira, J.G., Hawkins, A.J.S., Bricker, S.B., Xiao, Y., 2007. Virtual oysters in the Tagus Estuary and in Chesapeake Bay – A model analysis of shellfish productivity and eutrophication control. Presented at the 6<sup>th</sup> European Conference on Ecological Modelling, ECEM'07, Trieste, Italy, 27-30 November 2007.
40. Ferreira, J.G., Bricker, S.B., Xiao, Y., Zhang, X., Zhu, M., 2007. Application of Eutrophication Screening Models to Coastal Bays in China: The case of Jiaozhou Bay, an example of topdown control, and lessons for integrated coastal zone management in China. Presented at ERF2007, Providence, Rhode Island, USA, 4-8 November 2007.
41. Hawkins, A.J.S., Ferreira, J.G., Bricker, S.B., 2007. Predicting the Impact of Shellfish Farms on Water Quality. Presented at ERF2007, Providence, Rhode Island, USA, 4-8 November 2007.

42. Zhu, M.Y., Ferreira, J.G., Hawkins, A.J.S., Zhang, X.L., Li, R., 2007. Sustainable Development of Mariculture in Chinese Coastal Waters. Presented at ERF2007, Providence, Rhode Island, USA, 4-8 November 2007.
43. Ferreira, J.G., Hawkins, A.J.S., Bricker, S.B., Lipton, D., Rothschild, B., Xiao, Y., 2007. Virtual Oysters in Chesapeake Bay - A modeling study of productivity and top-down control of eutrophication. Presented at ERF2007, Providence, Rhode Island, USA, 4-8 November 2007.
44. Zhu, C.B., Ferreira, J.G., Donato, M., Hawkins, A.J.S., Yan, X.J. Nobre, A.M., 2007. LMPrawn - A Model for Management of Cultivated Penaeid Shrimp. Presented at ERF2007, Providence, Rhode Island, USA, 4-8 November 2007.
45. Bricker, S. B., Ferreira, J. G., Wolff, W. J., Simas, T. C., 2005. Residence time influences on phytoplankton diversity and eutrophication response in estuaries and coastal waterbodies. Presented at ERF2005, Norfolk, Virginia, USA, 16-20 October 2005.
46. Newton, A., Ferreira, J. G., Nobre, A. M., Simas, M. T., Silva, M. C., Meirinho, A., Bricker, S. B., Wolff, W. J., 2005. A methodology for defining homogeneous water bodies in transitional and coastal waters under the EU Water Framework Directive. Presented at ERF2005, Norfolk, Virginia, USA, 16-20 October 2005.
47. Ferreira, J. G., Bricker, S. B., Nobre, A. M., Zhang, X. L., Zhu, M. Y., 2005. Research and screening models for science and management - integrated assessment of ecological balance and sustainability in coastal zones. Invited talk, ERF2005, Norfolk, Virginia, USA, 16-20 October 2005.
48. Bricker, S. B., Smith, S. V., Ferreira, J. G., Nobre, A., Dettmann, E., Latimer, J., 2005. Assessment of eutrophication: a comparison of methods applied to Barnegat Bay. Presented at ERF2005, Norfolk, Virginia, USA, 16-20 October 2005.
49. Newton, A., Ferreira, J.G., 2005. Interaction with Management of Estuarine Systems. Invited talk, ERF2005, Norfolk, Virginia, USA, 16-20 October 2005.
50. Bricker, S.B., Ferreira, J.G., Nobre, A.M., Zhang, X.L., Zhu, M.Y., Wang, B.D., Yan, X.J., Callender, R., Matlock, G.C., 2005. Application of the ASSETS eutrophication assessment methodology to four contrasting Chinese coastal systems. Presented at ASLO Summer Meeting 2005.
51. Ferreira, J.G., Bricker, S.B., De Wit, M.P., Lipton, D., 2005. Development of a quantitative methodology for defining and assessing response to coastal eutrophication. Presented at ASLO Summer Meeting 2005.
52. Ferreira, J.G., Simas, M.T., Bricker, S.B., Wolff, W.J., Mason, A., Nobre, A., 2004. The use of ASSETS and phytoplankton species composition to define type-specific reference conditions for estuarine water quality management. Invited talk, ASLO/TOS 2004 Ocean Research Conference, Honolulu, Hawaii, USA 15-20 February 2004.
53. Bricker, S.B., Ferreira, J.G., Simas, T.C., & Nobre, A.M., 2003. Understanding and managing eutrophication in coastal lagoons. Invited talk, ERF2003, Seattle, Washington, USA, 14-18 September 2003.
54. Nobre, A., Ferreira, J.G., Icely, J., Newton, A., & Lencart-Silva, J., 2003. Land-ocean interactions for a shallow mesotidal lagoon – Analysis by ecological modelling. Poster presented at the European conference of coastal zone research: an ELOISE approach. Gdansk, 24-27 March 2003.
55. Ferreira, J.G., 2002. Invited talk: Application of the U.S. National Estuarine Eutrophication Assessment (NEEA) to some European estuaries. National Estuarine Eutrophication Update Workshop. NOAA, Patuxent, U.S.A., September 2002.

56. Ferreira, J.G., 2001. Invited talk: Application of ecological modelling for sustainable aquaculture in developing countries. 4th Gulbenkian Autumn Meeting/1st Portuguese Meeting on Theoretical and Computational Biology. Oeiras, October 2001.
57. Ferreira, J.G., 2001. "Keynote": Aplicação de um índice de qualidade a sete sistemas estuarinos de Portugal, I Congresso sobre Planeamento e Gestão das Zonas Costeiras dos Países de Expressão Portuguesa: Problemas Actuais e Perspectivas Futuras. Azores, October 2001.
58. Ferreira, J.G., 2001. "Keynote": Ecological modelling: Application to the sustainable management of the Ria Formosa. Annual Estuaries conference, Lisbon, September 2001.
59. Newton, A., Icely, J., Vale, C., Nobre, A., Nunes, J.P., & Ferreira, J.G., 2001. Eutrophication in the Ria Formosa coastal lagoon, Portugal. Poster presented at the 4th ELOISE open science meeting. Rende, 5-7 September 2001.
60. Ferreira, J.G., 1999. "Keynote": Portuguese Estuaries and Catchment Basin River Plans. EUROCOAST conference, Lisbon, October 1999.
61. Ferreira, J.G., 1999. "Keynote": Bottom-Up Perspectives on Integrated Coastal Management: How can ecosystem modelling play a more significant role? International Conference on Sustainable Management of Coastal Ecosystems, Oporto, November 1999.
62. Monvoisin, G., & Ferreira, J.G., 1997. Fish dynamics in a coastal food chain - Simulation and analysis. 2º Simposio sobre el Margen Continental Iberico. Cadiz, September 1997.
63. Veloso, P., & Ferreira, J.G., 1997. Analysis of the ecosystem response of the Tagus estuary to changes in nutrient loading using an ecological model. ECSA local meeting "The Tagus estuary and adjoining coastlines", Lisbon, 25-27 June 1997.
64. Grillot, N., & Ferreira, J.G., 1996. Modelling of the exchanges between salt marsh and estuarine ecosystems. ECSA26/ERF96 symposium, Middelburg, September 1996.
65. Duarte, P., & Ferreira, J.G., 1996. Dynamic modelling of photosynthesis in marine and estuarine ecosystems. ProDynamics96, Hamburg, March 1996.
66. Ferreira, J.G., 1995. Invited talk: Modelling coastal marine ecosystems - problems and perspectives. Workshop EERO - Changing estuarine and coastal environments. GKSS, Geesthacht, 8-12 October 1995.
67. Ferreira, J.G., & Duarte, P., 1994. Productivity of the Tagus Estuary - An application of the EcoWin ecological model. 1º Simpósio sobre a Margem Ibérica Atlântica, Lisbon, 28-30 November 1994.
68. Nunes, L., & Ferreira, J.G., 1994. Modelling pathways of metal uptake in the Cala do Norte: Spatial patterns of distribution of metals in sediments. Advances in Water Resources Technology and Management. Lisbon, 14-18 June 1994.
69. Ferreira, J.G., Carvalho, M.L., Marques, M.I., Amorim, P., & Ramos, M.T., 1993. Trace elements analysis by X-Ray fluorescence in macrophyte algae, for pollution monitoring in the Tejo Estuary. Poster presented at the 1st SETAC World conference, Lisbon, March 1993.
70. Duarte, P., & Ferreira, J.G., 1991. Production rates of the agarophyte *Gelidium sesquipedale* and related physical and chemical factors. Poster presented at the 1st EMIN meeting (European Marine Interdisciplinary Network), NIOZ, Texel, Netherlands, 1991.
71. Gomes Ferreira, J., 1990. Macrophyte algae as indicators of mercury pollution. Invited paper - European Science Foundation Workshop on Toxicology. Sesimbra, April 1990.



72. Wang, J.X., Chevallier, P., Carvalho, M.L., & Ferreira, J.G., 1989. S.R.X.R.F. analysis of Fe, Cu, Zn and Pb in macrophyte algae from a polluted estuary: A comparative study. 2nd European Conference on Synchrotron Radiation Research. Frascati, Italy, 2-6 October 1989.
73. Ramos, L., Silva, M.C., & Gomes Ferreira, J., 1985. Mercury contamination in the Tejo Estuary - A conceptual approach. Seminário "Gestão e modelação matemática da qualidade da água em rios". Lisboa, 24-27 Junho 1985.

#### **International reports**

1. Ferreira, J.G., Ramos, L., Costa-Pierce, B.A., 2010. Key drivers and issues surrounding carrying capacity and site selection, with emphasis on environmental components. FAO and Institute of Aquaculture, Stirling University.
2. Ferreira, J.G., J. Aguilar-Manjarrez, C. Bacher, K. Black, S.L. Dong, J. Grant, E. Hofmann, J. Kapetsky, P.S. Leung, R. Pastres, Ø. Strand, C.B. Zhu, 2010. Expert Panel Presentation V.3. Progressing aquaculture through virtual technology and decision-making tools for novel management, pp. 91-93. Book of Abstracts, Global Conference on Aquaculture 2010, 22-25 September 2010. FAO/NACA/Thailand Department of Fisheries, Bangkok, Thailand.
3. J.G. Ferreira, J.H. Andersen, A. Borja, S.B. Bricker, J. Camp, M. Cardoso da Silva, E. Garcés, A.S. Heiskanen, C. Humborg, L. Ignatiades, C. Lancelot, A. Menesguen, P. Tett, N. Hoepffner & U. Claussen, 2010. Marine Strategy Framework Directive. Task Group 5 Report. JRC/DG ENV/ICES
4. J.M. Kapetsky, J. Aguilar-Manjarrez, J. Jenness and J. G. Ferreira, 2010. Reconnaissance Study: Spatial analysis for the sustainable development of off-the-coast and offshore aquaculture from a global perspective. FAO, FIRA, *In Press*.
5. Cardoso, A.C., S. Cochrane, H. Doerner, J.G. Ferreira, F. Galgani, C. Hagebro, G. Hanke, N. Hoepffner, P.D. Keizer, R. Law, S. Olenin, G. Piet, J. Rice, S.I. Rogers, F. Swartenbroux, M. Tasker, W. van de Bund, 2010. Scientific support to the European Commission on the Marine Strategy Framework Directive Management Group Report, March 2010.
6. Prandle, D., Los, H., Pohlmann, T., de Roeck, Y., Tapani Stipa, T. (eds), Fennel, W., Ferreira, J.G., Hartnett, M., Herman, P., Knaapen, M., Pejrup, M., Proctor, R., Soetaert, K. Soukissian, T., Umgieser, G. Walczowski, W., Connolly, N. (contributors), 2005. Modelling in Coastal and Shelf Seas – European Challenges. European Science Foundation, ESF Marine Board Position Paper 7, 32pp.

#### **Other publications**

1. Ferreira, J.G., & Nobre, A., 2003. Oceanographic Applications to Eutrophication in Regions of Restricted Exchange - OAERRE. Final IMAR report for project EU EVK3-CT-1999-00002 (OAERRE).
2. Ferreira, J.G., Nunes, J.P., Gazeau, F., & Lencart, J., 2002. Carrying capacity and impact of aquaculture on the environment in Chinese bays. Final IMAR report for project EU ERBIC4CT98-0291 (INCO-DC).
3. Ferreira, J.G., 2001. "Keynote": Dia Nacional da Água - Divulgação da estratégia de implementação da Directiva-Quadro da Água (WFD). INAG, Lisbon, October 2001.
4. Ferreira, J.G. Simas, T., & Nunes, J.P., 2000. Modelling saltmarsh dynamics in European estuaries. Final IMAR report for project EU ENV4-CT97-0436 (EUROSAM).
5. Simas, T., & Ferreira J.G., 1999. Estudo da qualidade ambiental (água, sedimentos e biota) do meio receptor do emissário da Guia. Ambio, Lisbon 1999.
6. Grillot, N., & Ferreira, J.G., 1996. Modelo ecológico da Cala do Norte do estuário do Tejo. ECOTEJO, Rel. A-8403-06-96-UNL, Ed. DCEA/FCT.

7. Ferreira, J.G., Grillot, N., Neves, R., Duarte, P., Macedo, F., Kaizler, I., Rosado, M., Sirgado, P., & Nunes, L., 1996. ECOTEJO - Desenvolvimento de um sub-modelo ecológico para a Cala do Norte do Estuário do Tejo. Final IMAR report for project PBIC/MAR/1293/92.
8. Ferreira, J.G., 1996. Remoção de azoto do efluente da ETAR de Chelas: Impacte ecológico sobre o Estuário do Tejo. HIDROPROJECTO, Lisbon 1996.
9. Ferreira, J.G. Duarte, P., Grillot, N., Neves, R., & Vicente, P., 1995. MARE - Microalgae in the Adriatic Region. Final IMAR report for project EU EV5V-CT92-0215 (MARE).
10. Ferreira, J.G., Neves, R., Câmara, A.S., Duarte, P., Vicente, P., Portela, L., & Cancino, L., 1994. Modelo Ecológico do Estuário do Tejo. Final IMAR report for project PMCT 687-91/MAR.
11. Ball, B., Ferreira, J.G., & Keegan, B., 1994. Development of a model to determine the trophic capacity of mollusc rearing areas in Ireland and Greece. Final IMAR report for project EU FAR-AQ2516.
12. Ferreira, J.G., & Simas, M.J.B., 1993. Estudo prévio do impacte sobre a qualidade da água da Nova Ponte sobre o Tejo em Lisboa. HIDROPROJECTO, Lisbon, 1993.
13. Ferreira, J.G., 1993. A blueprint of the Tejo Estuary - Exploring the BarcaWin database. JEEP92 Workshop report, Faro, January 1993.
14. Ferreira, J.G., & Duarte, P., 1992. Environmental impact statement sobre a qualidade da água e do biota da melhoria das condições de navegabilidade do Rio Tejo (Cala do Norte). HIDROPROJECTO/BERIN, Lisbon 1992.
15. Neves, R., Ferreira, J.G., Vale, C., Guerra, M., & Cancino, L., 1991. Estudo da situação de referência e descrição qualitativa de impactes da nova travessia do Tejo em Lisboa. GATTEL, Lisbon, 1991.
16. Gomes Ferreira, J., 1989. Mercúrio em algas macrófitas do Estuário do Tejo. Direcção-Geral dos Recursos Naturais, PGIRH/T.
17. Câmara, A.S., Silva, M.C., Gomes Ferreira, J., Rodrigues, A.C., Remédio, J.M., Castro, P.C., Fernandes, T.F., & Machado, V., 1987. Sistema de gestão da qualidade da água do Estuário do Tejo. Direcção-Geral dos Recursos Naturais, PGIRH/T.
18. Ramos, L., Câmara, A.S., Gomes Ferreira, J., Silva, M.C., & Neo, M.F., 1986. Critérios e normas de qualidade para águas superficiais. *in* Introdução ao planeamento e gestão de recursos hídricos. 3 - Poluição hídrica. Costa, J.R., Santos, M.A., & Câmara, A., Eds. MAPRH, LNEC, 1986, p. 29-55.
19. Câmara, A.S., Silva, M.C., Ramos, L., & Gomes Ferreira, J., 1986. Divisão do Estuário do Tejo em Zonas Homogéneas. Direcção-Geral dos Recursos Naturais, PGIRH/T.
20. Ramos, L., Câmara, A.S., Gomes Ferreira, J., Silva, M.C., & Neo, M.F., 1986. Critérios e normas de qualidade para águas superficiais. DGQA/SQA N°4, Lisbon, 1986, 25pp.
21. Ramos, L., & Gomes Ferreira, J., 1985. Environmental impact statement na fauna e na flora do Esteiro do Ancão da construção de um lago salgado na Quinta do Lago, Algarve. Relatório técnico, Hidroprojecto SARL, Lisbon, 1985.
22. Gomes Ferreira, J., & Barros, M., 1983. Resíduos de pesticidas e PCBs no Estuário do Tejo - dados obtidos no período 1972-81. CNA/TEJO N°28 rel. 25. Lisbon, 42pp.
23. Moita, M.T., Martins, M., & Gomes Ferreira, J., 1983. Um modelo de regressão para a clorofila *a* no Estuário do Tejo. CNA/TEJO N°25, N.T.3, Lisbon.
24. Martins, M., & Gomes Ferreira, J., 1982. Determinação experimental da constante de oxidação do carbono da matéria orgânica. CNA/TEJO N°20, N.T. 2, Lisbon.

## Citations

This section presents an overview from the Web of Science, rather than a list of citations by author, as a more practical form of synthesizing citation data.

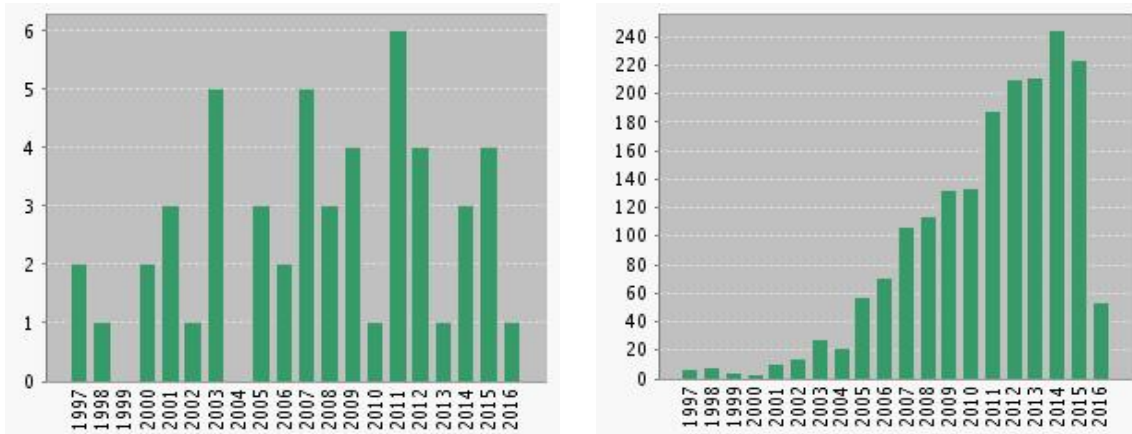


Fig. 1. Number of SCI publications per year (left pane) and citations per year (right pane).

Fig. 1 shows my SCI publications (left), and the corresponding citations (right) by other researchers. The right-hand pane includes self-citations. The period considered is 1986-2016, but the graph is only available for the last 20 years.

59 publications were cited 1854 times (1370 as corresponding author). 1331 different articles in total cited my work, of which 96% (1282) without self-citations.

The average citations per item are 31.42, and the h-index is 24, i.e. 24 publications have 24 citations or more (in 2014 the equivalent numbers were 28.74 and 19).

Table 1. Citation pattern over the period 2010-2016.

Publication	2010	2011	2012	2013	2014	2015	2016	Total	Mean $y^{-1}$
Bricker et al. Ecol. Mod. 2003, 169 (1) p. 39-60	15	27	21	17	29	27	7	233	16.64
Borja, et al. Mar Pol. Bull. 2008, 56 (9) p. 1519-1537	19	22	36	31	30	24	7	186	20.67
Tett et al. Cont. Shelf Res. 2003, 23 (17-19) p. 1635-1671	5	12	14	7	13	10	1	101	7.21
Ferreira et al. Aquaculture 2007, 264 (1-4) p. 160-174	9	14	13	11	17	12	4	97	9.7
Newton, et al. Cont. Shelf Res. 2003, 23 (17-19) p. 1945-1961	6	8	10	10	6	12	2	94	6.71
Ferreira et al. Est. Coast. Shelf Sci. 2011, 93 (2) p. 117-131	0	1	11	26	24	26	2	90	15
Nunes et al. Aquaculture 2003, 219 (1-4) p. 257-277	12	8	5	4	5	6	1	78	5.57
Effects of global climate change on coastal salt marshes	4	5	6	10	7	5	1	68	4.25
Macedo, et al. J. Plankton Res. 2001, 23 (7) p. 719-732	5	5	5	4	3	5	1	65	4.06
Nobre, et al. J. Mar. Sys. 2005, 56 (3-4) p. 375-390	8	8	4	4	8	4	0	57	4.75
<b>Total</b>	<b>83</b>	<b>110</b>	<b>125</b>	<b>124</b>	<b>142</b>	<b>131</b>	<b>26</b>	<b>1069</b>	

Table 1 shows citations by paper and by year for the period 2010-2016. A similar analysis could be made for the overall period reviewed, i.e. 1986-2016, which corresponds to about 1850 citations.

## International journals

1. Editorial board of Estuarine Coastal and Shelf Science;
2. Editorial board of Journal of Marine Systems;
3. Reviewer for the following journals: Aquaculture; Aquaculture Interactions; Climate Change; Ecological Economics; Ecological Modelling; Environmental Monitoring and Assessment; Environmental Toxicology and Chemistry; Estuarine, Coastal and Shelf Science; Estuaries and Coasts; European Science Foundation; Frontiers of Environmental Science and Engineering in China; Journal of Environmental Management; Journal of Experimental Marine Biology and Ecology; Journal of Marine Systems; Marine Ecology Progress Series; Marine Environmental Research; Marine Pollution Bulletin; Marine Technology Society Journal; Royal Society of Chemistry; Toxicology and Industrial Health.

### **International panels, reviews, and conference chairs**

1. University of Stirling, external examiner for the Institute of Aquaculture's M.Sc. in Aquaculture (2016-2019);
2. Panel member (reviewer) for the UK Biotechnology and Biological Sciences Research Council (BBSRC), Aqua Innovation, 2016;
3. World Aquaculture Society, WAS 2016 session co-chair (with J. Morris, NOAA), 2016;
4. Reviewer for the 2016 Saltonstall-Kennedy Grant Program Federal Funding Opportunity, NOAA, USA, 2016;
5. Panel member (reviewer) for the UK Biotechnology and Biological Sciences Research Council (BBSRC), Aquaculture, 2015;
6. European Aquaculture Society, Aquaculture Europe 2015 session chair, 2015;
7. Reviewer for Connecticut Sea Grant, USA, 2015;
8. Member of the Atlantic Ocean Research Alliance (Implementing the Galway Statement) Canada-EU-US Working Group Aquaculture. Invited by the European Commission (2014 onward);
9. Panel member (reviewer) for BONUS (Baltic Organisations' Network for Funding Science), 2014;
10. Panel member of the Euroshell project (FP7) final stakeholders meeting, 2014;
11. Reviewer for Rhode Island Sea Grant, USA, 2013;
12. Panel member of the STAGES project (FP7) expert group, 2012-2013;
13. Panel member for the US National Academy of Sciences, Drake's Estero review, 2012;
14. Reviewer for FWO (Flanders,Belgium), 2011;
15. Reviewer for the Belgian Science Policy Office, 2010;
16. Expert at the FAO sponsored expert workshop on "Aquaculture site selection and carrying capacity estimates for inland and coastal waterbodies", Institute of Aquaculture, University of Stirling, Dec. 2010;
17. Coordinator of the Thematic Review on Virtual Tools for Aquaculture, FAO Global Conference on Aquaculture, Bangkok, Thailand, 2010;
18. Member of the Management Group for the EU Marine Strategy Framework Directive, JRC/ICES on behalf of the European Commission, 2010-2011;
19. Coordinator of the Eutrophication Task Group (TG5) for the EU Marine Strategy Framework Directive, JRC/ICES on behalf of the European Commission, 2010-2011;
20. Scientific Committee of the ECSA 47 Symposium, Figueira da Foz, Portugal, 2010;
21. Reviewer for the U.S. National Academy of Sciences report: Best Practices for Shellfish Mariculture to Maintain Ecosystem Integrity, 2009;
22. Reviewer for Danish Council for Strategic Research, Denmark, 2009;
23. Reviewer for the Netherlands Organisation for Scientific Research (NOW), 2009;
24. Scientific Committee of the 10th International Coastal Symposium, ICS 2009, Lisbon, Portugal, 2009;
25. Member of the evaluation panel for projects of the EU FP7 Environment Programme, April 2008;
26. Member of the Scientific Committee of the 6<sup>th</sup> European conference on ecological modeling, ISEM-Europe, Trieste, Italy, 2007.
27. Member of the Scientific Committee and International Program Chair of the ERF2007 (Estuarine Research Federation) conference, Rhode Island, USA, 2007;
28. Scientific Committee of the AMEMR (Advances in Marine Ecosystem Modelling Research) conference, Plymouth, UK, 2005;
29. Member of the Science Advisory Council of Plymouth Marine Laboratory, U.K. (2004-2011);
30. Referee of the journal Aquaculture (since 2003);
31. Member of the editorial board of Journal of Marine Systems (since 2002);
32. Member of the evaluation panel for projects of the EU FP5 Aquaculture and Environment Programme, Nov. 2000;

33. Member of the evaluation panel for projects of the EU FP5 Aquaculture and Environment Programme, Jan. 2000;
34. Member of the evaluation panel for projects of the EU FAIR programme, 1999;
35. Referee of EU projects in the Aquaculture and Environment area (since 1998);
36. Member of the evaluation panel for projects of the EU FAIR programme, 1998;
37. Scientific Committee of the X Simpósio Ibérico de Estudos do Bentos Marinho. Algarve, February 1998;
38. Member of the evaluation panel for projects of the EU FAIR programme, 1997;
39. Referee for the journal Ecological Modelling (since 1997);
40. Scientific Committee of the 2º Simpósio sobre a Margem Ibérica Atlântica, Cádiz, Setembro 1997;
41. Scientific Committee of the Proynamics'96 conference, Hamburg, 1996;
42. Scientific Committee of the 1º Simpósio sobre a Margem Ibérica Atlântica, Lisbon, November 1994;
43. Scientific Committee of the 2ª European Conference on Advances in Water Resources Technology and Management, Lisbon, 1994;
44. Member of the evaluation panel for projects of the MAST III programme - EEC, 1995;
45. Organising Committee of the First Setac World Congress Ecotoxicology and Environmental Chemistry - a Global Perspective, Lisbon, 1993.

#### **National panels and reviews**

1. Scientific Committee of the 8ª Conferência Nacional sobre a Qualidade do Ambiente, 2004;
2. Member of the project evaluation panel, JNICT, 1995;
3. Scientific Committee of the 4ª Conferência Nacional sobre a Qualidade do Ambiente, 1994;
4. Member of the project evaluation panel, JNICT, 1994;
5. Member of the project evaluation panel, JNICT, 1993;
6. Member of the project evaluation panel, JNICT, 1992;
7. Member of the project evaluation panel, JNICT, 1991;
8. Scientific Committee of the 2º Conferência Nacional sobre Qualidade do Ambiente, 1990.

#### **Teaching**

##### **International appointments**

2016-2019 – External examiner, University of Stirling M.Sc. Aquaculture.

2015 – Distinguished International Visiting Scholar, University of Rhode Island, RI, USA.

2015 – Invited lecturer (Summer School), Duke University, NC, USA.

##### **Coordination**

Coordinator of the management option of the M.Sc. course "Ecology, management and modelling of marine resources", operated by the three Lisbon universities (UNL,UTL,UL) (1993-2004, 161 students);

Coordinator of the Erasmus "PIC" for oceanography at Universidade Nova de Lisboa, D.E.A. in Modelling of the marine environment, led by the University of Liège (ICP-95-B-1168/13) (1995-2008).

##### **Courses**

##### **Masters course in Environmental Engineering**

Final year masters projects (supervision of 5 projects);

Gestão da Água (coordinator 2012-present)

Gestão de sistemas aquáticos (coordinator 2006-2012);

Monitorização de sistemas ambientais (2007-present);

Modelação ecológica (coordinator 2007-2012);

Sistemas de Informação e Modelação em Ambiente (coordinator of the ecological modelling module, 50% of the course, 2013-present)

### **Masters course in Water Engineering and Management**

Processos Costeiros e Estuarinos (coordinator 2008-2015);

### **Undergraduate course in Environmental Engineering**

Final year projects (supervision of 12 projects);

Estuários e zonas costeiras (coordinator 1990-2004);

Gestão da qualidade de sistemas aquáticos (coordinator 1990-2004);

Exutores submarinos (aspectos biológicos) – ramo Eng. Sanitária (1984-1994);

Zoologia (1986-1988);

Ecologia marinha (1984-1990);

Poluição da Água (2010-present);

Ecologia Marinha e de Águas Interiores (2010-present).

### **Masters in Ecology, Management and Modelling of Marine Resources**

Ecologia marinha (Coordinator 1993-2003);

Processos costeiros e estuarinos (coordinator 2004-2006);

Poluição do mar (1993-2006);

Aquisição e análise de dados (coordinator 2000-2006);

Modelação ecológica (coordinator 1993-2006);

Introdução à investigação (coordinator 1993-2006).

### **Masters in Sanitary Engineering**

Exutores submarinos (aspectos biológicos) (1984-1994);

Ecologia marinha (1988-1994);

Qualidade da água (1988-1994).

### **Research supervision**

#### **Post-doctoral**

Alhambra Martinez

Camille Saurel

Zhu Changbo (joint supervision Dr. A.J.S. Hawkins, PML, Prof. Zhu Mingyuan, FIO)

Irene Martins (joint supervision Prof. J.C.Marques, U. Coimbra).

#### **Doctoral**

Maria João Botelho (concluded 2014, joint supervision Eng. C. Vale, IPIMAR);

Ana Nobre (concluded in 2009);

Teresa Simas (concluded in 2007);

João Canário (concluded in 2004, joint supervision Eng. C. Vale, IPIMAR);

Filomena Macedo (concluded in 2001);

Pedro Duarte (concluded in 1994).

### **Masters in Ecology, Management and Modelling of Marine Resources**

Andrea Franco (concluded 2006);

Miguel Carneiro (concluded 2005 - joint supervision Dr. R. Martins, IPIMAR);

Ana Moreira (concluded 2005);

Dalila Serpa (concluded 2005);

João Canário (concluded 2000 - joint supervision Eng. C. Vale, IPIMAR);

Teresa Simas (concluded 1998);

Ana Paula Oliveira (concluded 1998 - joint supervision Prof. M. Romão, IST);  
Filomena Macedo (concluded 1997);  
Margarida Rosado (concluded 1997);  
César Bolito (concluded 1997);  
Paula Mendes (concluded 1997).

### **Masters in Environmental Engineering**

António Marta (concluded 2015);  
Lurdes Brandão (concluded 2013);  
Paulo Almeida (concluded 2013);  
Joao Mimoso (concluded 2010);  
Vânia Bento (concluded 2009);  
Akli Benali (concluded 2008 - joint supervision Prof. Seixas, U.N.L.).

### **Masters in Water Management and Engineering**

André Lopes (thesis scheduled for 2016);

### **D.E.A. in Modelization de l'Environnement Marin**

Ana Sequeira - University of Liège (concluded 2004);  
Marine Pomarede - University of Liège (concluded 2002);  
Aida Alvera - University of Liège (concluded 2001);  
Frederic Gazeau - University of Liège (concluded 2000);  
Sebastien Martinez - University of Liège (concluded 2000);  
Salim Alami - University of Liège (concluded 2000 - joint supervision Prof. Djenidi, U. Liège);  
Sophie Briand - University of Liège (concluded 1999);  
Gaël Monvoisin - University of Liège (concluded 1997);  
Nathalie Grillot - University of Liège (concluded 1994).

### **Erasmus Mundus in Water Management**

Claudio Silva - University of Cadiz (concluded 2009);  
Yu Yunjun - University of Algarve (concluded 2009);  
Zhang Dong - University of Algarve (concluded 2007);  
Yongjin Xiao - University of Algarve (concluded 2007).

### **Undergraduate projects**

Final year project, A. Valente (concluded in 2004, joint supervision Prof. J. da Silva, FCUL);  
Final year project, D. Pereira (concluded in 2003);  
Final year project, P. Pereira (concluded in 2001);  
Final year project, P. Lopes (concluded in 2001);  
Final year project, G. Robalo (concluded in 2001);  
Final year project, K. Shifferegger (concluded in 2001);  
Final year project, A.Nobre (concluded in 2001);  
Final year project, J.P.Nunes (concluded in 1999);  
Final year project, M. Costa (concluded in 1998);  
Final year project, P. Veloso (concluded in 1997);  
Final year project, P. Sirgado (concluded in 1994);  
Final year project, Luís Nunes (concluded in 1993);  
Final year project, P. Vicente (concluded in 1993);  
Final year project, D. Faloon, U. Coleraine, Northern Ireland (concluded in 1990).

### **Award panels**

## **Ph.D.**

Neil Handisyde – University of Stirling, 2015 (external examiner);  
Long Kim Pham – University of Stirling, 2013 (external examiner);  
Ana Nobre – Universidade Nova de Lisboa, 2009;  
Carla Gameiro – Universidade de Lisboa, 2009;  
Daniele Brigolin – Università Ca' Foscari, 2007 (examiner);  
Teresa Simas – Universidade Nova de Lisboa, 2007;  
Marcos Mateus - Universidade Técnica de Lisboa – IST, 2006 (examiner);  
Sofia Loureiro - Universidade do Algarve, 2006 (examiner);  
Margarida Cardoso da Silva – Universidade Nova de Lisboa, 2003 (examiner);  
Filomena Macedo - Universidade Nova de Lisboa, 2002;  
Martin Plus - Université Pierre et Marie Curie (Paris VI), 2001, (rapporteur);  
Irene Martins - Universidade de Coimbra, 2000 (examiner);  
João Serôdio - Universidade de Lisboa, 1999 (examiner);  
Miguel Caetano - Universidade do Algarve, 1999;  
Luis Portela - Universidade Técnica de Lisboa – IST, 1998 (examiner);  
Cristina Boia - Universidade de Aveiro, 1996 (examiner).  
Vanda Brotas - Universidade de Lisboa, 1995 (examiner);  
Isabel Caçador - Universidade de Lisboa, 1995 (examiner);  
Pedro Duarte - Universidade Nova de Lisboa, 1995.

## **M.Sc.<sup>1</sup>**

Pedro Lourenço - Universidade Nova de Lisboa, 2008 (examiner);  
Joana Patrício – Universidade de Coimbra, 2003 (examiner);  
Silvia Duarte – Universidade Técnica de Lisboa, 2002 (examiner);  
Pedro Pina – Universidade Técnica de Lisboa, 2001 (examiner);  
Filomena Macedo - Universidade Nova de Lisboa, 1997 (examiner);  
Ana Mucha - Universidade Nova de Lisboa, 1997 (examiner);  
João Correia – Universidade Técnica de Lisboa, 1995 (examiner);  
Inês Costa - Universidade de Lisboa, 1995 (examiner);  
Francisco Neves - Universidade de Évora, 1994 (examiner).

## **D.E.A.**

Pascal Joassin - University of Liège, 2006 (rapporteur);  
Ana Sequeira - University of Liège, 2004 (rapporteur);  
Marine Pomarede - University of Liège, 2002 (rapporteur);  
Rita Monteiro - University of Liège, 2002 (rapporteur);  
Aida Alvera - University of Liège, 2001 (rapporteur);  
Nathalie Gypens - University of Liège, 2001 (rapporteur);  
Jerome Harlay - University of Liège, 2000 (rapporteur);  
Frederic Gazeau - University of Liège, 2000 (rapporteur);  
Sebastien Martinez - University of Liège, 2000 (rapporteur);  
Salim Alami - University of Liège, 2000 (rapporteur);  
Sophie Briand - University of Liège, 1999 (rapporteur);  
Cyril Bellouard - University of Liège, 1998 (rapporteur);  
Christine Ghot - University of Liège, 1998 (rapporteur);  
Gaël Monvoisin - University of Liège, 1997 (rapporteur);  
Khalid El Kalay - University of Liège, 1996 (rapporteur);  
Nathalie Grillot - University of Liège, 1994 (rapporteur).

## **Management posts**

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<sup>1</sup> Only panels where the author was an examiner



*Posts held at Faculdade de Ciências e Tecnologia of UNL*

FCT representative on the IMAR board of directors (2006-2012);

Vice-president of IMAR, representing FCT (1997-2006);

FCT representative on the IMAR board of directors(1991-1997);

Coordinator of the Centre for Ecological Modelling FCT/IMAR (2000-2007);

Management Board of the Centre for Ocean and Environment FCT/IMAR (2007-2012);

President of the Academic Council, FCT (1990-1993);

**Contract research**

1. FAO and Thailand Dept. of Fisheries – Aquaculture Information Management System (AIMS), 2012-2013. Concluded;
2. TEASMILE – Extension of SMILE for Belfast Lough to address the role of filter-feeding benthic wild species in detail, AFBI U.K., 2011-2012. Concluded;
3. SMILE SAC – Adaptation of SMILE models for the Strangford Lough Special Area of Conservation, analysis of restoration of horse mussel reefs, AFBI U.K., 2010. Concluded;
4. FORWARD - Framework for Ria Formosa water quality, aquaculture, and resource development. Estudo de Modelação Ecológica à Escala dos Ecossistemas, POLIS Algarve, 2010-2012. Concluded;
5. Consultant for implementation of the “Plano de Gestão da Região Hidrográfica do Tejo e do Plano das Bacias Hidrográficas das Ribeiras do Oeste”. ARH-Tejo, 2009-2011;
6. SMILE – Sustainable Mariculture in Northern Irish Lough Ecosystems. Coordinator. DARDNI/QUB U.K., 2005-2007. Concluded;
7. MONAE – Plano de Monitorização da Qualidade da Água e Ecologia. Coordinator. INAG, 2004-2005. Concluded;
8. Consultant for implementation of the WFD in Portugal, for transitional and coastal waters. INAG, 2001-2004. Concluded;
9. TICOR – Tipologia e Condições de Referência de Águas de Transição e Costeiras de Portugal. Coordinator. INAG, 2002-2003. Concluded;
10. Identificação do Estado Trófico dos estuários do Minho, Lima, Douro, Ria de Aveiro, Guadiana e da Ria Formosa. INAG, 2002-2003. Concluded;
11. Identificação do Estado Trófico dos estuários do Mondego, Tejo, Sado e Mira. INAG, 2001-2002. Concluded;
12. Plano Nacional da Água, Ecossistemas Estuarinos. INAG, 2001;
13. Elementos técnicos do caderno de encargos para o concurso do Plano Geral de Monitorização da Orla Costeira de Portugal Continental. Componente de Qualidade da Água e Ecologia. INAG, 2000;
14. Consultant: Environmental impact statement on “implementação dos empreendimentos de Alquêva-Pedrogão e Endevalo-Chança sobre o estuário do Guadiana”. INAG, 1999-2003;
15. Consultant for ecological modelling, IST. Programa de Monitorização do Emissário da Guia, IST, SANEST, 1999;
16. Environmental impact statement on “a qualidade da água no meio receptor do emissário da Guia”. Ambio, 1999;
17. Consultant for estuaries and coastal zones, Plano Nacional da Água – INAG 1998-1999;
18. Estudo da qualidade da água do Oceanário de Lisboa, EXPO98. ParqueExpo, 1998;
19. Desenvolvimento e implementação de bases de dados para a qualidade da água. Programa de Monitorização do Emissário da Guia. Subcontrato IST, SANEST, 1996-98;
20. Environmental impact statement “Funcionamento da Central de Tratamento de Resíduos Sólidos Urbanos de S. João da Talha - Descarga de metais pesados e dioxinas no biota e sedimentos estuarinos”. HIDROPROJECTO, 1997;
21. Environmental impact statement “Remoção de azoto do efluente da ETAR de Chelas: Impacte ecológico sobre o Estuário do Tejo” . HIDROPROJECTO, 1996;

22. Consultant for the area of biota: environmental impact statement “Nova Ponte sobre o Tejo” (consórcio LUSOPONTE). GATTEL, 1994;
23. Estudo prévio dos impactes sobre a qualidade da água e biota aquático na nova travessia do Tejo (Moscavide-Alcochete). HIDROPROJECTO, 1993;
24. Environmental impact statement on “a qualidade da água e do biota da melhoria das condições de navegabilidade do Rio Tejo (Cala do Norte)”. HIDROPROJECTO/BERIN, 1991-1992;
25. Estudo da situação de referência e descrição qualitativa de impactes da nova travessia do Tejo em Lisboa. GATTEL. Collaboration with IST and INIP, 1991;
26. Environmental impact statement on “construção de um lago salgado no complexo turístico da Quinta do Lago, Algarve”. HIDROPROJECTO, 1985.

### **Professional associations**

IOB - Institute of Biology of the U.K. (F.I.Biol., C.Biol.).