

# Curriculum Vitæ

João Gomes Ferreira

January 2012

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## João Gomes Ferreira

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### **Academic qualifications**

2004 - *Agregação* 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. (2010-2013). Partner. Coordinator: S.N. Groom, Plymouth Marine Laboratory, U.K.
2. **COEXIST** – EU Framework VII. (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° 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**

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. 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).
2. 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).
3. 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).
4. 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).
5. Nobre, A. M., Ferreira, J. G., Nunes, J. P., Yan, X., Bricker, S., Corner, R., Groom, S., Gu, H., Hawkins, A., 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, 43-62. (SCI Impact factor:1.633).
6. 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*. *Ecological Economics*, 68, 3007-3017. (SCI Impact factor:1.179).
7. 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).
8. 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: 1.536).
9. 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).
10. 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: 1.536).
  11. 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: 1.536).
  12. 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).
  13. 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).
  14. 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), 1-18 (SCI Impact factor: 1.284).
  15. 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*, 75, 393-407 (SCI Impact factor: 1.633).
  16. D. Whitall, 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. *Environmental Management*, 40:678-690. (SCI Impact factor: 0.911).
  17. 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: 1.536).
  18. 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.
  19. 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: 1.536).

20. J. G. Ferreira, A. M. Nobre, T. C. Simas, M. C. Silva, A. Newton, S. B. Bricker, W. J. Wolff, P.E. Stacey, A. Sequeira, 2005. 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).
21. J.G.Ferreira, W.J.Wolff, T.C.Simas, S.B.Bricker, 2005. Does biodiversity of estuarine phytoplankton depend on hydrology? *Ecological Modelling*, 513-523. (SCI Impact factor: 1.182).
22. A.M.Nobre, 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: 1.141).
23. Tett, P., Gilpin, L., Svendsen, H., Erlandsson, C.P., Larsson, U., Kratzer, S., Fouilland, 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: 1.231).
24. 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: 1.231).
25. Bricker, S.B., Ferreira, J.G., & Simas, T., 2003. An Integrated Methodology for Assessment of Estuarine Trophic Status. *Ecological Modelling*, 169 (1), 39-60 (SCI Impact factor: 1.182).
26. 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).
27. 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: 1.536).
28. 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).
29. Simas, T., Ribeiro, A.P., & Ferreira, J.G., 2001. SHRIMP - A dynamic model of heavy metal uptake in aquatic macrofauna. *Environmental Toxicology and Chemistry*, 20 (11), 2649-2656 (SCI Impact factor: 1.964).
30. 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: 1.259).

31. 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: 1.182).
32. 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: 0.659).
33. 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: 0.423).
34. Monvoisin, G., Bolito, C., & Ferreira, J.G., 1999. Fish dynamics in a coastal food chain, simulation and analysis. *Oceanography of the Iberian Continental Margin. Boletín Instituto Español de Oceanografía*, 15 (1-4), 431-440.
35. 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: 1.903).
36. Bacher, C., Duarte, P., Ferreira, J.G., Héral, M., & Raillard, O., 1997. Assessment and comparison of the carrying capacity of the Marennes-Oléron Bay (France) and Carlingford Lough (Ireland) carrying capacity with ecosystem models. *Aquatic Ecology*, 31 (4), 379-394.
37. 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.
38. 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: 1.182).
39. 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: 1.964).
40. Duarte, P., & Ferreira, J.G., 1997. Dynamic modelling of photosynthesis in marine and estuarine ecosystems. *Environmental Modeling and Assessment*, 2, 83-93.
41. 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: 1.903).
42. Ferreira, J.G., 1995. EcoWin - An object-oriented ecological model for aquatic ecosystems. *Ecol. Modelling*, 79, 21-34 (SCI Impact factor: 1.182).
43. Duarte, P., & Ferreira, J.G., 1993. A methodology for parameter estimation in seaweed productivity modelling. *Hydrobiologia*, 260/261, 183-189 (SCI Impact factor: 0.659).
44. Ferreira, J.G., 1991. Factors governing mercury accumulation in three species of marine macroalgae. *Aquatic Botany* 39, 335-343 (SCI Impact factor: 1.361).

45. 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: 1.361).
46. 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: 0.605).
47. 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: 0.605).

## **Books**

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.

6. 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.
7. 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.
8. 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. Joao G. Ferreira, Jon Grant, David Verner-Jeffreys, Nick Taylor, 2011. Modeling Frameworks for Determination of Carrying Capacity for Aquaculture. Encyclopedia of Sustainability Science and Technology, Springer, 2012, In Press.
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 2011. Progressing aquaculture through virtual technology and decision-making tools for novel management, FAO, In Press.
3. 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. FAO, Rome, In Press.
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55. Chen JL, Reynolds JF, 1997. *Ecol. Model.* 94 (1): 53-66.
56. Heip CHR, Goosen NK, Herman PM et al, 1995. *Ocean. and Mar. Biol.*, 33: 1-149.
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58. Dejong L, Diana C, Campos JR, et al., 1994. *Botanica Marina*, 37 (4): 367-379.
59. Barreiro R, Real C, Carballeira A, 1993. *Marine Env. Research*, 36 (1): 39-61.
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61. Pringle JD, Ugarte R, Semple RE, 1990. *Hydrobiologia*, 204, Iss SEP: 317-323.
62. Vale C, Sundby B, 1987. *Estuarine, Coastal & Shelf Science*, 25: 495-508.
63. Vale C, 1986 - *Rapp. P.-v. Réun. Cons. Int. Explor. Mer*, 186: 306-312.

### **Journal, conference and review panels**

#### **International journals**

1. Editorial board of *Journal of Marine Systems*;
2. 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 and reviews**

1. Coordinator of the Thematic Review on Virtual Tools for Aquaculture, FAO Global Conference on Aquaculture, Bangkok, Thailand, 2010;
2. Member of the Management Group for the EU Marine Strategy Framework Directive, JRC/ICES on behalf of the European Commission;
3. Coordinator of the Eutrophication Task Group for the EU Marine Strategy Framework Directive, JRC/ICES on behalf of the European Commission;
4. Scientific Committee of the ECSA 47 Symposium, Figueira da Foz, Portugal, 2010;
5. Reviewer for the U.S. National Academy of Sciences report: Best Practices for Shellfish Mariculture to Maintain Ecosystem Integrity, 2009;
6. Reviewer for Danish Council for Strategic Research, 2009;
7. Reviewer for the Netherlands Organisation for Scientific Research, 2009;
8. Scientific Committee of the 10th International Coastal Symposium, ICS 2009, Lisbon, Portugal, 2009;
9. Member of the evaluation panel for projects of the EU FP7 Environment Programme, April 2008;
10. Member of the Scientific Committee of the 6<sup>th</sup> European conference on ecological modeling, ISEM-Europe, Trieste, Italy, 2007.
11. Member of the Scientific Committee and International Program Chair of the ERF2007 (Estuarine Research Federation) conference, Rhode Island, USA, 2007;
12. Scientific Committee of the AMEMR (Advances in Marine Ecosystem Modelling Research) conference, Plymouth, UK, 2005;
13. Member of the Science Advisory Council of Plymouth Marine Laboratory, U.K. (since 2004);
14. Referee of the journal Aquaculture (since 2003);
15. Member of the editorial board of Journal of Marine Systems (since 2002);
16. Member of the evaluation panel for projects of the EU FP5 Aquaculture and Environment Programme, Nov. 2000;
17. Member of the evaluation panel for projects of the EU FP5 Aquaculture and Environment Programme, Jan. 2000;
18. Member of the evaluation panel for projects of the EU FAIR programme, 1999;
19. Referee of EU projects in the Aquaculture and Environment area (since 1998);
20. Member of the evaluation panel for projects of the EU FAIR programme, 1998;
21. Scientific Committee of the X Simpósio Ibérico de Estudos do Bentos Marinho. Algarve, February 1998;
22. Member of the evaluation panel for projects of the EU FAIR programme, 1997;
23. Referee for the journal Ecological Modelling (since 1997);
24. Scientific Committee of the 2<sup>o</sup> Simpósio sobre a Margem Ibérica Atlântica, Cádiz, Setembro 1997;
25. Scientific Committee of the Proynamics'96 conference, Hamburg, 1996;
26. Scientific Committee of the 1<sup>o</sup> Simpósio sobre a Margem Ibérica Atlântica, Lisbon, November 1994;

27. Scientific Committee of the 2<sup>a</sup> European Conference on Advances in Water Resources Technology and Management, Lisbon, 1994;
28. Member of the evaluation panel for projects of the MAST III programme - EEC, 1995;
29. 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 8<sup>a</sup> Conferência Nacional sobre a Qualidade do Ambiente, 2004;
2. Member of the project evaluation panel, JNICT, 1995;
3. Scientific Committee of the 4<sup>a</sup> 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 2<sup>o</sup> Conferência Nacional sobre Qualidade do Ambiente, 1990.

### **Teaching**

#### **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-present).

### **Courses**

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

Final year masters projects (supervision of 3 projects).  
Gestão de sistemas aquáticos (coordinator 2006-present);  
Monitorização de sistemas ambientais (2007-present);

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

Processos Costeiros e Estuarinos (coordinator 2008-present);

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

Modelação ecológica (coordinator 2007-present);  
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).

### **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**

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 (in progress, joint supervision Eng. C. Vale, conclusion scheduled for 2013);

Claudio Silva (in progress, conclusion scheduled for 2012);

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**

Adelaide Gonçalves (in progress, conclusion scheduled for 2010);  
Joao Mimoso (in progress, conclusion scheduled for 2010);  
Vânia Bento (concluded 2009);  
Akli Benali (concluded 2008 - joint supervision Prof. Seixas, U.N.L.).

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

Filipa Vazquez (in progress, conclusion scheduled for 2011);

### **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.**

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>2</sup>**

Pedro Lourenço - Universidade Nova de Lisboa, 2008 (examiner);  
Joana Patrício – Universidade de Coimbra, 2003 (examiner);  
Sílvia 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 Ghiot - 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**

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

FCT representative on the IMAR board of directors (2006-present);  
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-present);  
President of the Academic Council, FCT (1990-1993);

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<sup>2</sup> Only panels where the author was an examiner

## **Contract research**

1. FORWARD - Framework for Ria Formosa water quality, aquaculture, and resource development. Estudo de Modelação Ecológica à Escala dos Ecossistemas, POLIS Algarve, (2010-2012);
2. 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;
3. SMILE – Sustainable Mariculture in Northern Irish Lough Ecosystems. Coordinator. DARDNI/QUB U.K., 2005-2007;
4. MONAE – Plano de Monitorização da Qualidade da Água e Ecologia. Coordinator. INAG, 2004-2005;
5. Consultant for implementation of the WFD in Portugal, for transitional and coastal waters. INAG, 2001-2004;
6. TICOR – Tipologia e Condições de Referência de Águas de Transição e Costeiras de Portugal. Coordinator. INAG, 2002-2003;
7. Identificação do Estado Trófico dos estuários do Minho, Lima, Douro, Ria de Aveiro, Guadiana e da Ria Formosa. INAG, 2002-2003;
8. Identificação do Estado Trófico dos estuários do Mondego, Tejo, Sado e Mira. INAG, 2001-2002;
9. Plano Nacional da Água, Ecossistemas Estuarinos. INAG, 2001;
10. 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;
11. Consultant: Environmental impact statement on “implementação dos empreendimentos de Alquêva-Pedrogão e Endevaló-Chança sobre o estuário do Guadiana”. INAG, 1999-2003;
12. Consultant for ecological modelling, IST. Programa de Monitorização do Emissário da Guia, IST, SANEST, 1999;
13. Environmental impact statement on “a qualidade da água no meio receptor do emissário da Guia”. Ambio, 1999;
14. Consultant for estuaries and coastal zones, Plano Nacional da Água – INAG 1998-1999;
15. Estudo da qualidade da água do Oceanário de Lisboa, EXPO98. ParqueExpo, 1998;
16. Desenvolvimento e implementação de bases de dados para a qualidade da água. Programa de Monitorização do Emissário da Guia. Subcontrato IST, SANEST, 1996-98;
17. 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;
18. Environmental impact statement “Remoção de azoto do efluente da ETAR de Chelas: Impacte ecológico sobre o Estuário do Tejo” . HIDROPROJECTO, 1996;
19. Consultant for the area of biota: environmental impact statement “Nova Ponte sobre o Tejo” (consórcio LUSOPONTE). GATTEL, 1994;

20. Estudo prévio dos impactes sobre a qualidade da água e biota aquático na nova travessia do Tejo (Moscavide-Alcochete). HIDROPROJECTO, 1993;
21. 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;
22. Estudo da situação de referência e descrição qualitativa de impactes da nova travessia do Tejo em Lisboa. GATTEL. Collaboration with IST and INIP, 1991;
23. 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.);