

ANA ALEXANDRA SOARES ARANDA DA SILVA

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Date of Birth: 19 September 1977
Nationality: Portuguese

EDUCATION

- 2001 - 2005 University of Southampton
PhD title: Benthic Protozoa community attributes in relation to environmental gradients in the Arabian Sea. Supervised by Prof. Andrew Gooday and Prof. Paul Tyler.
- 1998 - 1999 Bournemouth University
MSc Coastal Zone Management
Subjects studied: Coastal Processes, Marine Resource Management, Marine Pollution, Crisis Management, Coastal Law, Environmental Information Systems, Ecological and Environmental Management, Leisure and Tourism in the coast and Marine Heritage Science.
Project title: Fish catch monitoring of three municipalities off the coast of Isabela province (Palanan, Divilacan and Maconacon) and the possible fisheries management implications for the area – Philippines.
- 1995 - 1998 University of Plymouth
BSc (Hons) Marine Biology with Ecology - 2.2.
Subjects studied during year 1: Ocean Science: Oceanography and Chemistry, Mathematics for Marine Studies, Transferable Skills and Techniques, Aquatic Ecosystems, Evolution and Behavioural Ecology, Life in the Sea, Ocean Science: Meteorology and Physics, Further Mathematics for Marine Studies, Data handling and Analysis, Genetics and Evolutionary Biology, Fundamentals of Ecology and Life on Land.
Subjects studied during year 2: Ecological Methodologies, The Littoral Environment, Data Analysis and experimental Design in Biology B, Introductory Field Course, Community Ecology, Ecological Strategies, Adaptations by Marine Organisms to Life in the Littoral, Diversity of Marine Invertebrates, Field Biology, Environmental Biology: Molecular Aspects, Ecological Processes in aquatic communities and Research Methods.
Subjects studied during year 3: Physiological Ecology of Marine Organisms, Biology of Marine Vertebrates A, Aquatic Pollution A, Conservation, Applied Concepts in ecology A, Marine Aquaculture, Biology of Marine Vertebrates B, Aquatic Pollution B, Restoration Ecology, Applied Concepts in ecology B.
Honours project: Spatial variation of meiofauna on a tropical sandy beach.
- 1995 British Council
IELTS (International English Language Testing System) - score 6.5
- 1994 - 1995 Escola Secundária São João do Estoril
12th Grade of Portuguese school system (equivalent to A levels in England and Wales) - Biology (15/20), Chemistry (13/20) and Maths (13/20). Final course average of 14/20.
- 1992 - 1994 Escola Secundária São João do Estoril
10th and 11th Grades of Portuguese school system (equivalent to pre-A level year). Final course average 16/20 (11 subjects).

RELEVANT WORK EXPERIENCE

- 2006 R.R.S. (Royal Research Ship) *Charles Darwin* cruise 179 from 14.04.2006 to 17.05.2006, part of HERMES, EU network project.
- 2005 R.R.S. *Discovery* cruise 297 from 26.07.2005 to 17.08.2005, part of HERMES.
- 2005 R.R.S. *Discovery* cruise 296 from 13.07.2005 to 23.07.2005.
- October 2004 2 weeks of intensive training in analysis of molecular data (using the Neighbour-Joining and Maximum Likelihood methods, using ClustalX, Seaview and Phylo-Win programmes) with Dr Jan Pawlowski at the University of Geneva, Switzerland.
- 2004 2 months intensive training in molecular techniques (DNA extraction, PCR, gel electrophoresis, purification, sequencing, cloning and alignment of sequences) applied in foraminifera and *Gromia* phylogeny. Work conducted with Dr Jan Pawlowski at the University of Geneva, Switzerland.
- January 2004 3 weeks intensive training in sectioning and the use of the High Voltage Electron Microscope (HVEM) with Dr Sam Bowser at the Wadsworth Center, Albany, NY, USA
- 2003 R.R.S. *Charles Darwin* cruise 145 from 21.03.2002 to 09.04.2002.
- 2002 R.R.S. *Charles Darwin* cruise 143 from 01.12.2002 to 21.12.2002.
- 1999 Plan International Philippines - Northern Sierra Madre Natural Park, Conservation Project (MSc. three month work placement):
- Assessed the fisheries activities of the coastal areas of the natural park.
 - Drafted a fisheries management plan for the area
 - Focused on environmental impact and socio-economic assessments in order to identify appropriate sustainable management objectives.

PUBLICATIONS

Aranda da Silva A, Pawlowski J, Gooday A (2005) High diversity of deep-sea *Gromia* from the Arabian Sea revealed by small subunit rDNA sequence analysis. *Marine Biology* 148: 769-777

Aranda da Silva, A., 2002. Community-Based Fisheries Management within the Northern Sierra Madre Natural Park, Isabela, Philippines. In: E.-P. ASSOCIATION (Editor), *Littoral 2002. The changing Coast*, Porto, Portugal, pp. 205-210.

PRESENTATIONS:

A. Aranda da Silva, Pawlowski, J., Bowser, S.S., and Gooday, A.J. Diversity of deep Sea Gromiids. Oral Presentation at the Workshop on Allogromiid Foraminifera at the International Symposium on Foraminifera. Natal, Brazil, 10-15 September 2006.

A. Aranda da Silva, Larkin, K.E., J. Pawlowski, Bowser, S.S. and Gooday, A.J. GROMIIDS: an important group of large protists on bathyal continental margins in the Arabian and Weddell Seas. Oral presentation at the 11th Deep-Sea Biology Symposium, National Oceanography Centre, Southampton, 9-14 July 2006.

A. Aranda da Silva, A. J. Gooday, J. Pawlowski, T. Cedhagen and N. Cornelius. Gromiid protozoans in the deep sea. Abstract poster for the Micropalaeontological Society's Foraminifera and Nannofossil Groups Joint Spring Meeting at the National Oceanography Centre, Southampton, UK. July 2005.

Ana Aranda da Silva, Andrew J. Gooday, Jan Pawlowski and Samuel S. Bowser. Large organic-walled Protozoa (*Gromia*) in the bathyal Arabian Sea. Abstract poster for the Challenger Conference for Marine Science, Liverpool, UK. September 2004.

Ana Aranda da Silva, Andrew J. Gooday, Jan Pawlowski and Samuel S. Bowser. Large organic-walled Protozoa (*Gromia*) in the bathyal Arabian Sea. Abstract poster for Evolution of Protozoa and other Protists, Linnean Society of London, UK. September 2004.

Ana Aranda da Silva. Giant Protozoa (gromiids) from the Deep Arabian Sea. Seminar given at the University of Geneva, Switzerland. May 2004

Aranda da Silva, A. and A. J. Gooday. Giant protozoa from the Arabian Sea. Oral presentation for the 38th European Marine Biology Symposium: Marine Biodiversity. Aveiro, Portugal. September 2003.

Aranda da Silva, A. and A. J. Gooday. Giant protozoa from the Arabian Sea. Abstract (poster) for 10th deep-Sea Biology Symposium, Coos Bay, Oregon, USA. August, 2003.

Cowie, G., A. Anestis, J.H. Andersson, B.J. Bett, D.S.M. Billet, T.D. Brand, E. Breuer, M. Danish, A. Aranda da Silva, T. Edwards, J.D. Gage, A.J. Gooday, M. Harvey, R.M. Jeffreys, H. Johnstone, P.A. Lamont, K.E. Larkin, L.A. Levin, S. McKinley, A. Miller, O. Peppe, T. Sawyer, M. Schwatz, D. Teare, W. Thompson and C. Woulds. Interactions of Benthic Communities and Sediment Geochemistry across the Pakistan Margin (Arabian Sea) Oxygen Minimum Zone. Abstract (poster) for 10th deep-Sea Biology Symposium, Coos Bay, Oregon, USA. August, 2003.

Aranda da Silva, A. and A. J. Gooday. Giant protozoa from the Arabian Sea. Seminar given at the National Oceanography Centre, Southampton, UK. August, 2003.

Ana Aranda da Silva and Andrew A. Gooday. Giant Protozoa from the Arabian Sea. Abstract poster for the Allo'2003 – International Workshop on Allogromiid Foraminifera: Biodiversity, Phylogeny, Ecology, Ancona, Italy. June 2003.

A. J. Gooday, A. Aranda da Silva and K. Larkin. Interactions of benthic communities and sediment geochemistry across the Pakistan margin OMZ: Monothalamous foraminifera and oxygen concentrations: some recent observations from the Pakistan margin (NE Indian Ocean) Oral presentation for the Allo'2003 – International Workshop on Allogromiid Foraminifera: Biodiversity, Phylogeny, Ecology, Ancona, Italy. June 2003.

Aranda da Silva, A. Community-Based Fisheries Management within the Northern Sierra Madre Natural Park, Isabela, Philippines. Abstract poster for the Littoral 2002: the changing coast, Porto, Portugal. September 2002.

Ana Aranda da Silva. Benthic foraminifera community attributes in relation to environmental gradients in the Arabian Sea. Seminar given at the National Oceanography Centre, Southampton, UK. September 2002.

OTHER SKILLS

Communication Excellent verbal and written communication skills with proven record of compiling a variety of reports to tight deadlines. Good presentation skills and experienced in the use of electronic formats. Fluent in both English and Portuguese. Some knowledge in both Spanish and French.

Computing Experienced in the use of the operating system Windows and basic knowledge using UNIX stations. Experienced in the use of several software including: MS office, CoralDraw, Paintshop pro, Adobe Acrobat, Endnote, Bioedit sequence aligner. Some

knowledge in the use of the network program Novell, the GIS package Arcview and the biological statistical programs PRIMER and Biodiversity Pro.

EXTRACURRICULAR INTERESTS

Involved in nautical sports such as sailing, powerboating, diving, having achieved RYA sailing level 3, RYA safety boat driver qualification, PADI open water certificate, complemented with VHF radio licensing and a first aid course.

REFERENCES

Prof Andrew Gooday (PhD supervisor)
George Deacon Division
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Southampton
Hampshire SO14 3ZH
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Dr Jan Pawlowski
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