

Career Development Plan

Name of fellow: António José Rocha Dias dos Santos

Department: Instituto de Arqueologia e Paleociências da Universidade Nova de Lisboa / IAP-FCSH

Name of Supervisor: Professor Rosa Varela Gomes

Name of Tutor: Professor Mário Varela Gomes

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BRIEF OVERVIEW OF RESEARCH PROJECT AND MAJOR ACCOMPLISHMENTS EXPECTED

Work Package 2 (WP2) - “Forest resources and Ships for Iberian Empires: ecology and globalization in the Age of Discovery”;

Early stage research of ESR7 - “16th century shipbuilding in Portuguese dockyards: a historical and archaeological perspective”;

Title of investigation – The Portuguese forest and its association with shipbuilding, along the 16th century

This research is divided on two parts. One consists on an historical component and another focused on archaeological research. Objectively, it consists on linking these two specialties by presenting significant results, while contributing to the Portuguese studies regarding its forest management and timber provenance along the 16th century. We intend to focus on timber as a prime-material, used on the majority of economic and daily activities, while paying a close attention to its growing necessity on Portuguese dockyards for the shipbuilding enterprise, essential to the expansion and development of the Portuguese empire, strongly settled on trade through sea routes.

This PhD will be accomplished on a maximum period of 3 years. It will be a work divided between:

- An intense search and research of written information (historical documents, historical archives, already published articles, books, thesis and archaeological magazines);
- And a practical component divided between surveys and interventions on sites with the intent of recovering wooden samples from Iberian wrecks from the Early Modern Ages, meant to be submitted to dendrochronological analysis; develop a “listing and characterization of timbers from *Cais do Sodré* wreck”, contribute to the development of “the illustrated glossary of shipbuilding, participate on the development of a database of

Iberian Shipwrecks; possibly create a GIS file regarding the timber provenance of Portugal and (also if possible and necessary) the 3D reproduction of *cais do sodré* timbers through RHINO software;

The main goals consist on:

- Compiling data from written sources regarding forests, policies, forest management and timber trade;
- Compiling data from written sources regarding Portuguese shipbuilding during the 16th century;
- Gather information from known Portuguese shipwrecks;
- Recovery of wooden samples from relevant Portuguese and Spanish shipwrecks;
- Contribute to a database of Iberian shipwrecks;
- Contribute to “a ship in parts illustrated glossary”;
- Develop a “listing and characterization of timbers from *Cais do Sodré* wreck”;
- To participate in every workshop, campaign, conference and network meeting organized by the ForSEAProject;
- To synthesize results and assess best practices;

LONG-TERM CAREER OBJECTIVES (over 5 years):

1. Goals

To finish this PhD through Faculdade de Ciências Sociais e Humanas da Universidade Nova de Lisboa (FCSH-UNL) and apply to a post-Doctoral opportunity (within ForSEADiscovery project, possibly ForSEADiscovery II) with the intent of developing skills, research and curriculum regarding Iberian shipbuilding, forest management and underwater interventions during the Early Modern Age.

2. What further research activity or other training is needed to attain these goals?

- To improve software skills such as GIS, RHINO and FARO-arm (as it happened during the timber recording campaign in Esposende during August 2015 and the workshop that took place in Madrid during October 2015. Hopefully, during the Lampeter secondment this skills with develop further more);
- Possibly develop studies on Palaeography - analysis of historical documents (no priority has been given to this training due to the lack of sufficient recovered documents on Portuguese archives);

- Improve diving skills within our team - WP2 (as it happened during the HSE diving course that took place in Portsmouth during March/April 2015, during the underwater campaign that took place in Galicia during June 2015 and the future interventions being planned at the moment for 2016);

SHORT-TERM OBJECTIVES (1-2 years):

1. Research results

- Submit the Research Proposal Plan to my coordinator and tutor (Professor Rosa Varela Gomes and Professor Mário Varela Gomes) together with our Work Package 2 coordinator, Professor Nigel Nayling and our project director Professor Ana Crespo Solana;
- Develop the research regarding forest administration in Portugal and European timber provenance while associated with shipbuilding on Portuguese dockyards (accomplished in part. More work required along 2016);
- Develop an illustrated glossary of a ship in parts, with technical nomenclature in three languages - English, Portuguese and Spanish (achieved during November and December 2015 in Lampeter with the coordination of Professor Nigel Nayling);
- Develop a database regarding the known Iberian shipwrecks from the early modern ages;
- Record timbers belonging to a Portuguese wreck - the "*Cais do Sodré*", in Lisbon (during February and March 2016 under the coordination of Professor Nigel Nayling);
- To attend all mandatory seminars and submit the required essays on time – so far, all approved with 17 points in 20 (Portuguese evaluation system);
- To deliver and defend my PHD proposal in October 2015, successfully approved with 17 points in 20;

- **Anticipated publications:**

- It is intended to publish every given conference along this PHD, together with some articles and ForSEAdiscovery blog entries.

- **Anticipated conference, workshop attendance, courses, and /or seminar presentations:**

It is expected to attend and/or present results on international conferences such as:

- IKUWA V, Cartagena, between the 15th and 19th of October 2014,
- In Poseidon`s Real XX, Nuremberg, between the 16th and 22nd of March 2015 (with a published article together with my fellow member Koldo Trapaga Monchet),

- ISBSA 14, Gdansk, between the 21st and the 25th of September 2015,
- IKUWA VI, Australia, December 2016 (with the objective of presenting and publishing an article);
- To prepare and submit some articles within the ForSEAdiscovery blog;
- To publish an article associated with the network meeting that took place in Lisbon during November 2015;

It is expected to attend the workshops organized within the FoeSEAdiscovery Project such as:

- Madrid on January 2015,
- Groningen on May 2015,
- Madrid on October 2015,
- Wageningen on December 2015;

It is expected to attend the network meetings within the ForSEAdiscovery Project such as:

- Lisbon on November 2014,
- Porto on February 2015,
- Madrid on December 2015;
- December 2015,

2. Research Skills and techniques:

○ Training in specific new areas, or technical expertise etc:

- Improve skills on computer software (Rhino, GIS and FARO-arm);
- Improve skills on timber recording techniques;
- Improve skills in scuba diving within our team (WP2);
- Attendance on a shipbuilding workshop in Madrid, by Professor Filipe Castro;
- Attendance on a historical documents workshop in Madrid, by Professor Jan Willen;
- Attendance on a GIS and RHINO workshop in Madrid, by Professor Toby Jones and Professor Jemma Bezzant;

- Scuba diving course in Portsmouth UK, by Andark Diving;
- Underwater campaign in Galicia during June, 2015;
- Timber recording workshop in Esposende during August, 2015;

3. Research management:

- **Fellowship or other funding applications planned (indicate name of award if known; include fellowships with entire funding periods, grants written/applied for/received, professional society presentation awards or travel awards, etc.)**

- Nothing planed until this moment.

4. Communication skills:

- To develop communication skills by participating in national and international conferences related with the ESR7 tasks in maritime archaeology and forest resources, to promote dissemination and increase both confidence and experience;
- Sign up for the Marie Curie Alumni and European Commission web pages;
- Create a profile at academia.edu as suggested by Professor Nigel Nayling and Professor Ana Crespo Solana;

5. Other professional training (course work, teaching activity):

- Nothing planed until the moment (except the possibility of attending a shipbuilding workshop coordinated by Pat Tanner.

6. Anticipated networking opportunities

International conferences such as IKUWA and ISBSA to promote and to have opportunity to meet, change ideas and learn with other specialists in the area of maritime archaeology and forest resources.

7. Other activities (community, etc) with professional relevance:

- Arrange meetings with investigators as Dr. Amândio Barros and Dr. Nicole Devy-Vareta, specialists on forest resources and Portuguese Dockyard studies. Also establish permanent contact with Professor Filipe Castro regarding shipbuilding subject (as it took place during March 2015);

Date & Signature of fellow:

Date & Signature of supervisor