

## 1- PERSONAL INFORMATION

Name: José Tadeu Marques Aranha

Local and Birthday: Sá da Bandeira, Angola, 23<sup>rd</sup>/March/1963

Marital status: Married

Portuguese Nationality

Dept. of Forestry Sciences and Landscape Architecture

Universidade de Trás-os-Montes e Alto Douro, 5001-801 VILA REAL.

Mobile: 00 351 917503049

Email: j\_aranha@utad.pt or j.aranha.utad@gmail.com



## 2- ACADEMIC EDUCATION AND EXPERIENCE WORK

2012 - Aggregation - Universidade de Trás-os-Montes e Alto Douro

2003 - Associate Professor, with tenur - Universidade de Trás-os-Montes e Alto Douro

1998 - PhD degree in Geographical Information Systems - School of Geography, Kingston University - England.

Doctoral fellowship of JNIC (current FCT) Praxis XXI / BD / 3630/94 – 1994 to 1998

1991 - Pedagogical and Scientific Capacity graduation – Univ. de Trás-os-Montes e Alto Douro

1988 - Graduation in Forestry in - Universidade de Trás-os-Montes e Alto Douro

## 3- EDUCATIONAL AND SCIENTIFIC GUIDANCE AND SUPERVISION

PhD thesis: 6 concluded and 3 on going

Master project: 26 concluded and 4 on going

Undergraduated final report: 40 concluded (UTAD), 14 concluded (Erasmus)

Fellowship supervision: 1 Postdoc concluded, 1 Phd concluded, 2 Master concluded, 1 PhD ongoing, 1 Master ongoing

## 4 – RESEARCH SUBJECTS

Geographical Information Systems and Remote Sensing in Agro-forestry issues: Landuse Land cover classification and mapping, Forestry Biomass calculation, Fire Hazard calculaton and mapping, Ecosystem Services Estimation and Biological Struggle, Wildlife survey

Researcher affiliated to CITAB - Centre for the Research and Technology of Agro-Environmental and Biological Sciences –www.citab.utad.pt

<https://orcid.org/0000-0003-3171-2951>

## 5 – RESEARCH PROJECTS

### European projects:

Atlantic-Positiv: 2019 – 2022- INTERREG Atlantic Area - 1.764.896€

ALICE: 2017-2021 - INTERREG Atlantic Area - 2 531 202€

AGreenSmart Erasmus + : 2020 – 2023 – 385.420€

SAVE OXYCEDRUS - Conservation and reproduction of threatened and high-value Juniperus oxycedrus populations - 98.278,47 €  
Smart Farming Erasmus +: 2018 – 2020 - 314.100€

**National projects:**

Control Vespa Tâmega e Sousa - POSEUR-03-2215-FC-000165 - 176.194,34€  
GO Vespa - Vespa velutina nigrithorax Control and damage minimization: 2018 – 2021 - 312.000€  
EcoVitis – Ecosystem Services in Douro Valley Vine yards: 2013 – 2017 - 214.000€  
CSInDoro - Mate disruption of the grape moth in Douro Valley: 2018 – 2021 – 192.000€  
INTERACT – Integrative Research in Environment, Agro-Chains and Technology (Norte-01-0145-FEDER-000017) financiado pelo Programa Norte 2020, no Eixo P1 – Investigação, Desenvolvimento Tecnológico e Inovação, através do Sistema de Apoio à Investigação Científica e Tecnológica (FEDER Aviso Norte 45-2015-02) com o montante de 3.508.60. €  
POSEUR-15-2015-11– HAND ON VESPA: Working group for assessing regional scale environmental risks and best guidance practices on control and preventing the spread of exotic Vespa velutina in northern Portugal– 411.664€

**Former team member in 16 projects: 1998 - 2013**

**6 – CONSULTANCY AND KNOWLEDGE TRANSMISSION (After 2014)**

- 2020 - National Iberian Wolf Census (ICNF - Operation - POSEUR-03-2215-FC-000095). Work to be carried out in the hot earth of Trasmontana. GIS and cartography consultant
- 2020 - ZEC Management Plans (Zonas Especiais de Conservação - ICNF):
  - Mira Gandara and Gafanhas Dunes
  - Azabuxo-Leiria
  - Arrábida-Espichel
  - Sintra-Cascais
  - Gale behaves

GIS and cartography consultant – Reports under public consultation

- 2018 – Forest Inventory of Forests Burned in Fires 2017 (ICNF). Classification and quantification of woody material for the National Stands and Forest Perimeters of:
  - M N of Dunas de Vagos
  - M N of Quiaios
  - M N of Bear
  - M N Pedrógão
  - P F of Dunas and Pinhais de Mira
  - P F Cantanhede Dunes

General coordinator. Statistical analysis and modeling of data, GIS creation and management.

- 2018 – Final report of the Regional Forest Management Program for the Trás-os-Montes and Alto Douro region (ICNF). General coordinator. Statistical analysis and modeling of data, GIS creation and management.
- 2018 – Final report of the Regional Forest Management Program for the Entre o Douro e Minho region (ICNF). General coordinator. Statistical analysis and modeling of data, GIS creation and management.
- 2016 – Report on the 1st phase of review of the Regional Forest Management Plan for Trás-os-Montes and Alto Douro. Consultant

Curriculum summarized – José Aranha – 2022

- 2016 – Report on the 1st phase of review of the Regional Forest Management Plan of Entre-o-Douro e Minho. Consultant
- 2016 - Analysis of the forestry potential of the Municipality of Amarante. Protocol of work and investigation with the Municipality of Amarante. GIS creation and management

#### **7 - ACADEMIC AND UNIVERSITY MANAGEMENT**

Board member of the General Council of Universidade de Trás-os-Montes e Alto Douro: 2013-2017  
Head of the Department of Forest Sciences and Architecture Landscape: 2013 -2017  
Executive Director of the Master Course in Geographic Information Systems: 2016 to date  
Executive Director of the PhD Course in Sustainable Forestry, Consorcioum University of Coimbra and UTAD: 2019 – to date

#### **8 - PARTICIPATION IN JURY:**

9 PhD, 5 Academic Examinations and documentary, 44 Masters and 102 Undergraduation

#### **9 - PUBLICATIONS**

1 Book; 5 Book chapters, 7 books published by UTAD, 27 papers in International Journals (ISI JCR), 6 papers in National Journals (Latindex, scopus), 48 paper in International Congress Proceedings Books, 72 papers in National Conference Proceedings Books, 30 papers in dissemination and transmission of science.

#### **10 - OTHER**

Board Member of the Executive Council of the Portuguese Engineers Society, <http://www.oern.pt/> - Northern Region: 2013-2019  
Coordinator of Forestry College of the Portuguese Engineers Society - Northern Region: 2006-2013  
Consultant by UTAD, on the project Operation ON2- North-07-0927-FEDER-000141- 2015-2017  
Senior Editor of INFO (Engineers Society Journal) since 2010 to date.  
MDPI online editor and manuscript reviewer: 2019 to date  
MDPI special issue editor

Board member of Centro Pinus, <https://centropinus.org/>: 2018 to date

Chairman of the Advisory Board of RegiLima, Cooperativa Florestal, <https://www.regielima.pt/> 2016 to date

#### **11 - SCIENTIFIC COMPANIES, PROFESSIONAL AND NON-GOVERNMENTAL**

Full member of Centre for the Research and Technology of Agro-Environmental and Biological Sciences – CITAB - <http://www.citab.utad.pt/>  
Member of Portuguese Society of Forest Science  
Member of USIG - Geographic Information Systems Users Society  
Senior member of Portuguese Engineers Society  
WAVES - Euro-Mediterranean Society of Wildlife Watch, board member: 2020 til date

## 12 - LANGUAGES

Portuguese (native language)

English (speaking, reading and writing)

French (speaking, reading and writing)

Spanish (speaking, reading and writing).

## 13 PAPERS (After 2014)

- José Aranha, Ana Carolina Abrantes, Raquel Gonçalves, Rui Miranda, and João Serejo and Madalena Vieira-Pinto (2021), GIS as an epidemiological tool to monitoring Tuberculosis spatial-temporal distribution in large game in a high risk-area in Portugal. *Animals* 2021, 11(8), 2374; <https://doi.org/10.3390/ani11082374>
- Brito, T.; Fragoso, R.; Marques, P.; Fernandes-Silva, A.; Aranha, J. LCA of Soybean Supply Chain Produced in the State of Pará, Located in the Brazilian Amazon Biome. *Biol. Life Sci. Forum* 2021, 3, 11. <https://doi.org/10.3390/IECAG2021-10072>
- Bakis, AL. P. ; Macovei, I. ; Barros, P. ; Gomes, C. ; Diogo Carvalho, D. ; Alexandre Cabral, J.A. ; Travassos, P. ; Laura Torres, L. ; Aranha, J. ; Galaçchi, L.D. ; Santos, M.(2021) Is biodiversity linked with farm management options in vineyard landscapes? A case study combining ecological indicators within a hybrid modelling framework. *ECOLOGICAL INDICATORS* 121 (107012) :1-12..doi: doi: 10.1016/j.ecolind.2020.107012..(Impact factor, Quartile: , Q2).
- Fantina Tedim; SarahMcCaffrey; VittorioLeone; Giuseppe Mariano Delogu; MarcCastelnou; Tara K.McGee; JoséAranha (2020), “What can we do differently about the extreme wildfire problem: An overview”. *Extreme Wildfire Events and Disasters, Root Causes and New Management Strategies*, 2020, Pages 233-263
- Aranha, José; Enes, Teresa; Calvão, Ana; Viana, Hélder. (2020), "Shrub Biomass Estimates in Former Burnt Areas Using Sentinel 2 Images Processing and Classification." *Forests* 11, no. 5: 555.
- Enes T, Lousada J, Fonseca T, Viana H, Calvão A, Aranha J. (2020), Large Scale Shrub Biomass Estimates for Multiple Purposes. *Life (Basel)*. 2020;10(4):33. Published 2020 Mar 30. doi:10.3390/life10040033
- Enes, T.; Lousada, J.; Aranha, J.; Cerveira, A.; Alegria, C.; Fonseca, T. Size–Density Trajectory in Regenerated Maritime Pine Stands after Fire. *Forests* (2019), 10, 1057. <https://doi.org/10.3390/f10121057>
- Enes, T.; Aranha, J.; Fonseca, T.; Matos, C.; Barros, A.; Lousada, J. Residual Agroforestry Biomass – Thermochemical Properties. *Forests* (2019), 10, 1072. <https://doi.org/10.3390/f10121072>
- Teresa Enes, José Aranha, Teresa Fonseca, Domingos Lopes, Ana Alves and José Lousada (2019), Thermal Properties of Residual Agroforestry Biomass of Northern Portugal. *Energies* 2019, 12(8), 1418; <https://doi.org/10.3390/en12081418>
- Gonçalves, F., Carlos, C., Aranha, J. and Torres, L. (2017), Does habitat heterogeneity affect the diversity of epigeic arthropods in vineyards? *Agr Forest Entomol*. doi:10.1111/afe.12270
- Mário G. Pereira, José Aranha, Malik Amraoui (2014) – Land Cover Fire Propensity in Europe. *Forest Systems* 2014 23(3):0. Instituto Nacional de Investigación y Tecnología Agraria e Alimentaria (INIA). ISSN: 2171-5068; eISSN: 2171-9845. <http://dx.doi.org/10.5424/fs/2014233-06115>