Bernardo Campilho

Home : Rua Dr. Fernando Araújo de Barros ,338, Apartment 35, 3rd Floor, 4475-076, Porto, Portugal

Email: up201704548@up.pt **Email:** bern.campilho@gmail.com

Phone: (+351) 918803967 **Google Hangouts:** Bernardo Campilho

LinkedIn: https://www.linkedin.com/in/bernardo-campilho/

Gender: Male **Date of birth:** 13/01/2000 **Nationality:** Portuguese

WORK EXPERIENCE

[04/02/2020 – 21/01/2022]

Apprenticeship with CAUP investigator Dr. Morgan Deal and A&A paper publication

Faculdade de Ciências da Universidade do Porto

City: Porto

Country: Portugal

This apprenticeship has introduced me to the scientific investigation working environment and has also given me additional computational knowledge (Python, MESA, Ubuntu, Fortran95). After being submitted to the Astronomy & Astrophysics (A&A) journal, it was accepted for publication.

Paper Title: Atomic diffusion in solar-like stars with MESA - Comparison with the Montreal/Montpellier and CESTAM stellar evolution codes

The work developed in this paper was used to study turbulent mixing processes in heavier stars, a paper in which I am co-author: "Atomic diffusion and turbulent mixing in solar-like stars: Impact on the fundamental properties of FG-type stars", published in A&A.

[09/2021 – 03/2023]

MSc fellowship in Planetary Systems

Institute of Astrophysics and Space Sciences

City: Porto

Country: Portugal

The aim of this project was to derive oxygen and carbon abundances for a sample of host planets belonging to the Sweet-Cat data set. In this project, I was responsible for the development of the code for reading the stellar data, determining the desired parameters for every star and organizing the result data. Then, I analyzed the results, taking into account their theoretical principles, before sending them to the scientific supervisor at CAUP.

[07/2022 – 12/2022]

Chief Product Officer

MAIA

Co-Founder and CPO of MAIA, an advanced AI healthcare software capable of monitoring data from wearable devices to predict and alert of heart disease with machine learning. This was made possible through a grant to attend the European Innovation Academy (EIA) 2022.

The EIA gathered more than 500 students from all over the world. Together with my team, I spent 3 weeks learning about entrepreneurship, innovation, marketing and pitching from mentors who have worked for companies like Amazon, Google and Spotify. Furthermore, this opportunity allowed me to meet innovative people from diverse academic backgrounds and countries.

EDUCATION AND TRAINING

[07/2021]

Bachelor's Degree in Physics (Minor in Astrophysics)

Faculty of Sciences, University of Porto

Address: Porto, Portugal

[08/2021 – Current]

Master's degree in Medical Physics

Faculdade de Ciências da Universidade do Porto

Address: Porto, Portugal

LANGUAGE SKILLS

Mother tongue(s): Portuguese

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C2

Spanish

LISTENING C1 **READING** B2 **WRITING** B1

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Korean

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

DIGITAL SKILLS

Microsoft Office | Basic Fortran95 programming | Linux Ubuntu | Python libraries (NumPy Pandas Keras SciKit-Learn TensorFlow Matplotlib Seaborn) | Programming language PYTHON | MESA stellar evolution code | NI LabView | Programming language MATLAB | Programming Language R

HONOURS AND AWARDS

[06/07/2022] **Student Grant - European Innovation Academy 2022** **Awarding institution:** Santander

I was awarded a grant by Santander to attend the European Innovation Academy 2022, the biggest start-up academy in the world. It gathered 500 students from all over the world with the objective of learning about innovation, marketing, business and pitching for 3 weeks from global managers working at companies like Amazon, Google and Spotify. Furthermore, I created a 5 member team with the purpose of launching a start-up, as part of the program's challenge.

[11/2022] **Erasmus+: School on Planetary Geological Mapping and Field Analogues** **Awarding institution:** Erasmus+, European Union

Selected for a grant to represent FCUP in this school. It was organised in two weeks between Pescara and Predazzo (Dolomites): the first week in Pescara was focused on planetary settings and the second in Predazzo to their Earth counterparts. The school has been organised with a combination of lectures (scientific and technical) and practical activities.

[12/2022] **Erasmus+: Habitability in the Solar System and beyond** **Awarding institution:**
Erasmus+, European Union

Selected for a grant to represent FCUP in this school. The winter school was organised by the Laboratoire de Planétologie et Géosciences and took place at Nantes Université from Nov. 28 to Dec 2, 2022.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Good communication skills, specifically in the context of scientific investigation, both in person and online (Slack, e-mail, etc), in Portuguese and English.
Participation in multiple international teams in different contexts (CAUP, EIA, Erasmus+).
Experience at giving presentations to large audiences (IJUP 2021, EIA 2022, Erasmus+ GeoPlanet schools, DFA week).

ADDITIONAL INFORMATION

Personal interests

Music production and playing football. I also enjoy reading and playing chess.