



Pedro Veloso

Nationality: Portuguese

 (+39) 3395365759

Date of birth: 10/01/1997

Gender: Male

 **Email address:** pedro.velosomagalhaes@unipd.it

 **LinkedIn :** www.linkedin.com/in/pedromveloso/

 **Address:** Viale Giuseppe Colombo, 3, 335131 Padova (Italy)

ABOUT ME

With a background in Biochemistry and Biophysics, I was drawn to research and development with a main goal in mind: to improve quality of life of people. Driven by curiosity and scientific accuracy, I'm currently pursuing a career in health technology, with a particular interest in biosensing and drug delivery.

WORK EXPERIENCE

MSCA-ITN Fellow

Università degli Studi di Padova [01/01/2022 – Current]

City: Padova

Country: Italy

Currently, I'm part of the MSCA DIRNANO Innovative Training Network, which focuses on the directing and modulating immune response through designed nanomaterials.

I'm the ESR 2, and my main purpose is to identify the protein corona composition on nanoparticles and its functional effects.

Research fellow

Università degli Studi di Parma [16/07/2021 – 15/12/2021]

City: Parma

Country: Italy

My main responsibilities can be mainly divided into two categories: histological preparation of samples, from their embedding in paraffin to their staining and conducting research on the use of decellularized cartilage matrix for applications in tissue engineering. Specifically, I'm currently attempting to develop a novel bioadhesive material to attach the matrix to the osteochondral defect.

Master's thesis

IB-S - Institute of Science and Innovation for Bio-sustainability [11/2019 – 04/2021]

City: Braga

Country: Portugal

Thesis entitled "Formulation of a drug delivery platform for the release of 5-aminosalicylic acid in the gastrointestinal tract". During this time, I worked in the development of nanoparticles of elastin-like polypeptides and its characterisation for the loading and release of 5-aminosalicylic acid in the intestine. Besides protein production and purification, the qualitative and quantitative analysis techniques used included SDS-PAGE, absorbance and fluorescence spectroscopy, dynamic light scattering, FTIR, scanning electron microscopy and differential scanning calorimetry. I also learned about drug release kinetic models and its mathematical fit.

Freelance content writer

Upwork [10/2020 – 31/12/2021]

On the side, I worked as a freelance scientific/medical content writer. Currently, I'm doing translations for a medical platform from English to Portuguese.

Mathematics tutor

Centro de Estudos Triângulo Encantado [09/2019 – 03/2020]

City: Vila Verde

Country: Portugal

During this time, I tutored mathematics to students from the 5th grade to the 12th grade in a study centre. My main responsibilities included explaining mathematical concepts, answer questions and doubts, providing additional exercises and general help.

Bachelor's thesis

Centre of Biological Engineering [04/2018 – 06/07/2018]

City: Braga

Country: Portugal

Thesis entitled "Prebiotic functionality of fructo-oligosaccharides produced by *Aspergillus ibericus*". During this time, I produced fructo-oligosaccharides using fungal co-fermentation in bioreactors, combined with activated charcoal purification and high-performance liquid chromatography for quantitative analysis.

EDUCATION AND TRAINING

PhD student in Biomedical Sciences

Università degli Studi di Padova [01/01/2022 – Current]

Address: Viale Giuseppe Colombo, 3, 35131 Padova (Italy)

Master's in Biophysics and Bionanosystems

University of Minho [10/2018 – 04/2021]

Address: Rua da Universidade, 4710-057 Braga (Portugal)

<https://www.uminho.pt/PT>

Bachelor's in Biochemistry

University of Minho [09/2015 – 06/2018]

Address: Rua da Universidade, 4710-057 Braga (Portugal)

<https://www.uminho.pt/PT>

PUBLICATIONS

Review article

Veloso, P. M., Machado, R. & Nobre, C. Mesalazine and inflammatory bowel disease – From well-established therapies to progress beyond the state of the art. Eur. J. Pharm. Biopharm. 167, 89–103 (2021).

doi.org/10.1016/j.ejpb.2021.07.014

LANGUAGE SKILLS

Mother tongue(s): **Portuguese**

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING A1 READING A2 WRITING A2

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A2

German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Italian

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

DIGITAL SKILLS

Data analysis

R / Zetasizer / STARe Evaluation Software / ImageJ / Gwydion / Microsoft Excel

Editing and presentation

Adobe Photoshop / Microsoft Word / Microsoft Powerpoint

Programming

MATLab

COMMUNICATION AND INTERPERSONAL SKILLS

Speaker at two Master's dissemination event

At two separate events, I was invited to talk about my academic background and talk about my current work and future perspectives. One of them was online, to Bachelor's students, and the other was at my former high school.

Class delegate of the 2nd year of the MSc in Biophysics and Bionanosystems

As class delegate, my main mission was be a more efficient communicator between the students and the teachers/administrative services. I was responsible for expressing the main concerns of my colleagues to the teachers and making sure important information was properly transmitted to and from my class.

Organisation of the 1st Symposium in Biophysics and Bionanosystems

During the 2nd year of my MSc, I played a major role in the organisation committee of the 1st Symposium in Biophysics and Bionanosystems at the University of Minho. I was involved in a wide variety of tasks such as the elaboration of the event's poster, arrangement of sponsors, event promotion and many others.

Member of the School of Sciences' Pedagogic Council at the University of Minho

Member of the organisation committee of the IX Conference of Biochemistry at the University of Minho

Collaborator of the Cultural and Traditions department of the Academic Association of the University of Minho