

Bruno Emanuel da Graça Martins

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A. Professional Preparation

University of Lisbon

Computer Science and Engineering

M.Sc., 2004

University of Lisbon

Computer Science and Engineering

Ph.D., 2005-2009

B. Appointments

- Associate Professor in the Department of Electrical and Computer Engineering at IST, 2021 – present.
- Assistant Professor in the Department of Computer Science and Engineering at IST, 2009 – 2021.
- Researcher at INESC-ID, a laboratory associated to IST, 2008 – present.

C. Research Outputs

An updated list of publications is available at www.informatik.uni-trier.de/~ley/pers/hd/m/Martins: Bruno.

According to his Google Scholar profile, Bruno's current **h-index** is **36** and the **i10-index** is **105**.

Recent Significant Publications

- [1] Rita Ramos, Bruno Martins, Desmond Elliott, and Yova Kementchedjheva, *SmallCap: Lightweight Image Captioning Prompted with Retrieval Augmentation*, Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition Conference, 2023
- [2] Marina Georgati, João Monteiro, Bruno Martins, Henning Sten Hansen, and Carsten Keßler, *Modelling Population Distribution: A Visual and Quantitative Analysis of Gradient Boosting and Deep Learning Models for Multi-Output Spatial Disaggregation*, Transactions in GIS, vol. 28, no. 2, 2024

D. Synergistic Activities

Interdisciplinary Research and Community Activities

- Principal investigator in four research projects, nationally funded by FCT, concerning the processing of multi-modal and/or geospatial information from non-structured sources in a variety of applications.
- National coordinator of the European project MOOD (H2020-SC1-BHC-2018-2020 874850), which concerned monitoring outbreak events for disease surveillance in a data science context, contributing with expertise in text mining and geospatial analysis methods.
- Participating researcher in several other national and international research projects, as well as several consulting and technology transfer projects.
- Co-organizer of the ACM SIGSPATIAL Workshop on GeoAI (5 editions), regularly co-located with the ACM SIGSPATIAL conference, and member of the local organization committees for EMNLP'15, EAMT'20, ECIR'20, and EPIA'22.
- Member of the organization committee for the Lisbon Machine Learning Summer School (LxMLS).

Graduate Student Supervision

Previous Ph.D Students: Tiago Gonçalves (FCUL/UL and LASIGE, together with Ana P. Afonso), João Monteiro (Thales, IST/INESC-ID, together with João M. Pires), and Rita Ramos (IST/INESC-ID, together with Desmond Elliott).

Current Ph.D. Advisees: Luís Borges (IST/INESC-ID and CMU-PT, with Jamie Callan), Isabel Coutinho (IST/INESC-ID), João Coelho (IST/INESC-ID and CMU-PT, with Chenyan Xiong and João Magalhães), João Silva (IST/INESC-ID, with Devis Tuia and João Magalhães), Artur Guimarães (IST/INESC-ID, with João Magalhães), Gonçalo Gomes (IST/INESC-ID, with Chrysoula Zerva), Helder Dias (IST/INESC-ID, with Arlindo Oliveira), Piotr Gramacki (Wrocław Tech, with Piotr Szymański), Francisco Guedes (IST/INESC-ID and CMU-PT, with Arlindo Oliveira and Leila Wehbe), and Afonso Certo (IST/ISR, with Pedro U. Lima).