

Daniela M. Amaral

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Hello! I am a member of the Data and Systems Intelligence Research Line at the LASIGE Research Unit. I have recently completed my Master's degree in Computer Science and Engineering, specializing in Artificial Intelligence and Bioinformatics, at Instituto Superior Técnico, University of Lisbon.

Education

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| 2021 – 2023 | ■ M.Sc. Computer Science and Engineering , Instituto Superior Técnico (IST), University of Lisbon.
Specializations: Artificial Intelligence and Bioinformatics and Computational Biology
Final Grade: 19/20
Thesis title: <i>Learning Temporal Patterns for Patient Stratification in ALS</i> . Grade: 19/20 |
| 2023 | ■ CMMRS 2023 , Max Planck Institute (MPI)
The Cornell, Maryland, Max Planck Pre-doctoral Research School 2023 |
| 2022 | ■ M.Sc. Computer Science and Engineering , Technical University of Munich (TUM).
Erasmus Program - Summer Semester
Final Grade: 1.2 |
| 2018 – 2021 | ■ B.Sc. Computer Science and Engineering , Instituto Superior Técnico (IST), University of Lisbon.
Final Grade: 17/20 |

Professional Experience

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| 2022 – current | ■ Research Assistant . LASIGE Research Unit
Application of advanced clustering algorithms to stratify ALS patients based on temporal data. |
| 2022 – 2023 | ■ Teaching Assistant . Logic for Programming, Computer Science and Engineering Department, Instituto Superior Técnico (IST), University of Lisbon.
Course Unit Quality grade: 9/9 |
| | ■ Teacher . Happy Code, Lda.
Part-time teaching programming skills to children |
| 2021 (2 Months) | ■ Intern (Technical-Engineering) . Synopsys, Inc.
Developing an internal Computer Graphics project. |

Research

Journal Articles

- Daniela M. Amaral, Diogo F. Soares, Marta Gromicho, Mamede de Carvalho, Sara C. Madeira, Pedro Tomás, Helena Aidós. (2024). "Temporal stratification of amyotrophic lateral sclerosis patients using disease progression patterns", *Nature Communications*.

Conferences

- **CLEF, 2024:** Andreia S. Martins† Daniela M. Amaral, Eduardo N. Castanho, Diogo F. Soares, Ruben Branco, Sara C. Madeira and Helena Aidos (2024). "Predicting the Functional Rating Scale and Self-Assessment Status of ALS Patients with Sensor Data". CLEF. - Paper
- **LASIGE WorkShop, 2024:** ClusTric: Unraveling Disease Progression Patterns for Patients Stratification in Amyotrophic Lateral Sclerosis - Poster
- **RedeSaude Conference, 2023:** Learning Temporal Patterns for Patient Stratification in ALS - Pitch and Poster
- **LASIGE WorkShop, 2023:** Learning Temporal Patterns for Patient Stratification in ALS - Poster

Peer Reviews

- Review activity for the journal **Computers in biology and medicine** (3).

Skills

Languages	■ Strong reading, writing and speaking competencies for English and Portuguese (Fluent). Basic competencies for German (A1) and Spanish.
Programming Languages	■ Python, Java, R, C, C++, SQL, JavaScript, Prolog

Awards and Achievements

2022 – 2023	■ Teaching Excellence , Instituto Superior Técnico (IST), University of Lisbon.
2022	■ 1st Edition of Huawei Scholarships , Huawei & .PT.
2021 – 2022	■ Academic Excellence (A level) , Instituto Superior Técnico (IST), University of Lisbon.
2020 – 2021	■ Academic Excellence (A level) , Instituto Superior Técnico (IST), University of Lisbon.
2019 – 2020	■ Academic Merit (B level) , Instituto Superior Técnico (IST), University of Lisbon.
2018 – 2019	■ Academic Merit (B level) , Instituto Superior Técnico (IST), University of Lisbon.