

# Daniela 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

- 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: *Learning Temporal Patterns for Patient Stratification in ALS*. **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

- 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

- **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** (2).

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