

# ÁLISTER MACHADO REIS

Porto Alegre, RS - Brazil

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## HIGHER EDUCATION

- 2018 – **M.S. in Data Science**, INP Grenoble, ENSIMAG – FRANCE  
Thesis: [Incremental Learning Applied to Streaming Environments](#)
- 2018 – **Information Systems Engineering**, INP Grenoble, ENSIMAG – FRANCE  
Thesis: [Advanced Indexes for In-Memory Query Processing](#)
- 2018 – **B.S. in Computer Science**, Federal University of Rio Grande do Sul (UFRGS), Porto Alegre – BRAZIL

## SKILLS

- Proficient in the use of *Python*, *R* and *C++*. Familiar with *C*, *C#*, *Java*, *Ruby*, and also functional languages *Scala*, *OCaml*, *Haskell*.
- Peer mentoring: Maths (Calculus, Linear Algebra, ...), Theoretical Computer Science (Formal Semantics, Automata), Applied Computer Science (Programming), Data Preprocessing.
- Internet-based dissemination of Reinforcement Learning core concepts through blogging (<https://amreis.github.io>).
- Fast learner, quickly grasping the behavior of code in order to manipulate it.
- Highly focused under pressure.
- Excellent initiative, planning, and execution of independent research.
- Strong background in Algorithms, Complexity, Data Structures, Compilers, Operating Systems, Operational Research and Computer Theory.
- Strong graduate level background in Probabilistic Graphical Models, Machine Learning, Convex Optimization and learning models such as Support Vector Machines and Neural Networks.
- Fluent in [Portuguese](#), [English](#) and [French](#) and functionally literate in [German](#).

## WORK & TEACHING EXPERIENCE

### Data Science Intern – SAP Labs LLC – San Ramon, CA

Researched, analyzed, and created new metrics for the evaluation of various Incremental Learning techniques for streaming data, using *Python* for coding and *R/Python* for data analysis.

Feb – Aug 2017

### Development Intern – SAP SE – Walldorf, Germany

Designed, implemented, and tested a new type of index structure for the SAP HANA Database. Used *C++* for coding, *Python* and *R* for data/performance analysis.

Mar – Jul 2016

### Development Intern – Mconf/PRAV UFRGS – Porto Alegre, Brazil

Implemented new features and corrected bugs on a *Ruby on Rails* platform for web conferences and online classes.

Dec 2014 – Jul 2015

### Teaching Assistant – UFRGS – Porto Alegre, Brazil (*paid position*)

Taught and evaluated freshman students in the practical sessions of the Algorithms and Programming course (taught in *C*), amounting to 60 hours of classes.

Aug – Dec 2014

### Research Assistant – Embedded Systems Group, UFRGS – Porto Alegre, Brazil (*paid position*)

Developed software in *Java* for Android, using an interface that allowed programming in *C* to obtain applications that were significantly faster when compared to one written only in *Java*.

Dec 2012 – Jun 2013

## AWARDS AND DISTINCTIONS

- 2016 – **Best Master's Student Project Award**, SAP HANA Open House 2016, Walldorf – Germany.
- 2015 – **Science Without Borders Student Exchange Award** (*Ciência Sem Fronteiras Scholarship*) – BRAFITEC, funded by the Brazilian Ministry of Education.
- 2008, 2007 – **Honorable Mention**, Brazilian Public Schools Math Olympics (OBMEP – Olimpíada Brasileira de Matemática das Escolas Públicas), National level competition.
- 2007 – **Honorable Mention**, Brazilian Public Schools Math Olympics (OBMEP – Olimpíada Brasileira de Matemática das Escolas Públicas), National level competition.
- 2006 – **Bronze Medal**, Brazilian Public Schools Math Olympics (OBMEP – Olimpíada Brasileira de Matemática das Escolas Públicas), National level competition.