

Guilherme R. Ferreira

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EDUCATION

PhD in Computer Science, North Carolina State University, NC **08/2015 - present**
• GPA: 3.5

B.Sc. in Computer Science, Fluminense Federal University, RJ, Brazil **03/2010 - 01/2014**
• GPA: 7.85/10 (Top 5% of all CS students)

Study Abroad Program, University of Wisconsin – Madison, WI **01/2012 - 12/2012**
• 9 CS courses taken

WORK EXPERIENCE

DevOps Advanced Technologies, IBM **05/2016 - present**
Data Scientist Manager: Don Cronin
• Working on analyzing software engineering data in order to build models for deriving insights on the devops lifecycle process, focusing on continuous integration.

Computer Science Department, North Carolina State University **08/2016 - present**
Graduate Researcher Adviser: Tim Menzies
• Conducting research on using machine learning techniques to improve the devops cycle, such as predicting the likelihood of software defects and continuous integration results.

IBM-Research Brazil **06/2014 - 06/2015**
Research Intern Advisors: Luciano Barbosa and Marcos Vieira
• Performed applied research with an international team of PhD's on topics such as integration of spatio-temporal capabilities to existing systems and automatic extraction of web records.

Computer Science Department, Fluminense Federal University **08/2014 - 02/2015**
Undergraduate Researcher Advisors: Alexandre Plastino and Isabel Rosseti
• Applied data mining techniques to increase the performance of metaheuristics in obtaining solutions for combinatorial optimization problems.

Computer Science Department, Fluminense Federal University **09/2013 - 07/2014**
Undergraduate Researcher Advisor: Daniel de Oliveira
• Implemented a NoSQL DBMS for a scientific workflow management system comparing the results with a relational approach, where we obtained a 30% increase in performance.

Schlumberger Oil Services Ltd **11/2013 - 05/2014**
System Analyst Intern
• Worked as a system analyst in a team of 20 professionals focusing on the support, maintenance and analytics of an oil data management software and its Linux servers.

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TEACHING ASSISTANT EXPERIENCE

North Carolina State University

08/2015 - 05/2016

- Assisted with four classes in total: Data Science, Multimedia Technology, Introduction to Operating Systems and Programming Concepts - Java.

Fluminense Federal University

01/2014 - 06/2014

- Assisted with Web Development (40 students) and Database Systems (60 students).

PUBLICATIONS

- **The Use of NoSQL DBMS for the Management of Distributed Provenance in Scientific Workflows**, Guilherme Ferreira, Carlos Filipe Jr., and Daniel de Oliveira. *Proceedings of the 29th Brazilian Database Symposium* (Acceptance rate: 32%).
- **Extracting Records and Posts from Forum Pages with Limited Supervision**, Luciano Barbosa and Guilherme Ferreira. *Proceedings of the 15th International Conference on Web Information Systems Engineering* (Acceptance rate: 25%).

AWARDS

Out for Undergrad-Engineering, 2016

- Chosen to represent NCSU at the Out for Undergrad-Engineering conference, where top LGBTQ students are hand-picked to meet professionals from top companies and graduate schools.

Science Without Borders Scholarship, 2012

- Awarded the Brazilian Government's Science without Borders Scholarship, competing with over 7000 top Brazilian students for one of the 500 scholarships available.

ADDITIONAL INFORMATION

- **Languages:** Portuguese (Native), English (Fluent), Spanish (Intermediate).
- **Tech Skills:** C/C++, Java, MATLAB, R/RStudio, SQL, NoSQL, Python, HTML/CSS.
- **Databases:** Oracle, DB2, MySQL, Cassandra, MongoDB.
- **Personal Skills:** Proven record of teamwork, communication and critical thinking.
- **References:** List of references with contact information can be provided upon request.