

Ricardo Ferreira Guimarães

📧 rfguimaraes.github.io

Education

PhD in Computer Science

Institute of Mathematics and Statistics - University of São Paulo

São Paulo-SP, Brazil

03/2015-01/2020

Supervisor: Professor Renata Wassermann

Thesis: Modularity in Belief Change of Description Logic Bases

Scholarships: Coordination for the Improvement of Higher Education Foundation (CAPES): 03/2015 - 07/2017. São Paulo Research Foundation (FAPESP): 08/2017 - 11/2019

BSc in Computer Science

Institute of Mathematics and Statistics - University of São Paulo

São Paulo-SP, Brazil

2011–2014

Honorable Mention

Bachelor Dissertation/Project: Extensions to the AML ontology aligner

Apprentice Maintenance Electrician

SENAI (National Service for Industrial Training) "Ary Torres"

São Paulo-SP, Brazil

2008–2009

Honorable Mention

Experience

Department of Informatics - University of Bergen

Postdoctoral Research Fellow

Bergen, Norway

12/2020-Present

Project: Lossy Preprocessing (LOPRE)

Faculty of Computer Science - Free University of Bozen-Bolzano

Research Assistant

Bolzano, Italy

03/2020-11/2020

Project: PAC Learning with Ontologies

School of Computer Science - University of Manchester

Academic Visitor

Manchester, UK

04/2018-12/2018

Program: Research Internship Abroad. Sponsor: São Paulo Research Foundation (FAPESP)

Institute of Mathematics and Statistics - University of São Paulo

Teaching Assistant

São Paulo-SP, Brazil

2017

Course: Introduction to Logic and Program Verification.

Institute of Mathematics and Statistics - University of São Paulo

Teaching Assistant

São Paulo-SP, Brazil

2016

Course: Introduction to Computing for Exact Sciences and Technology.

Institute of Mathematics and Statistics - University of São Paulo

Network Administrator of the Rede Linux

São Paulo-SP, Brazil

2013–2014

Published and Presented Works

Papers

- Jandson S. Ribeiro, Ricardo Guimarães, Ana Ozaki. *Revising Ontologies via Models: The \mathcal{ALC} -formula Case*. At the 34th International Workshop on Description Logics (DL 2021).

- Ricardo Guimarães, Ana Ozaki, Cosimo Persia, Baris Sertkaya. *Mining \mathcal{EL}^\perp Bases with Adaptable Role Depth*. At the 35th AAAI Conference (AAAI 2021).
- Vinícius Bitencourt Matos, Ricardo Guimarães, Yuri David Santos, Renata Wassermann. *Pseudo-contractions as Gentle Repairs*. In *Description Logic, Theory Combination, and All That* (Springer, 2019).
- Ricardo Guimarães, Uli Sattler and Renata Wassermann. *Ontology Stratification Methods: A Comparative Study*. At 3rd International Workshop on Ontology Modularity, Contextuality, and Evolution (WOMoCoE 2018).
- Ricardo Guimarães and Renata Wassermann. *Local Change in Ontologies with Atomic Decomposition*. At the *Debugging and Evaluation Workshop, part of the 3rd Joint Ontology Workshops (DEW@JOWO 2017)*.

Extended Abstracts.....

- Ricardo Guimarães and Renata Wassermann. *Modularity and Ontology Change*. In *Proceedings of the Doctoral and Masters Consortium of the 9th Seminar on Ontology Research in Brazil (ONTOBRAS 2017)*.
- Ricardo Guimarães and Renata Wassermann. *Atomic decomposition as relevance criteria in ontology revision*. At the *18th Brazilian Logic Conference (EBL 2017)*.

Teaching

Selected Topics in Artificial Intelligence (INF367)

Department of Informatics - University of Bergen

Lecturer

08/2021–12/2021

Computer skills

Programming Languages: Python, Java, C/C++, Bash, Lua, Prolog, Octave/Matlab

Tools: GNU/Linux, Git, SQL, \LaTeX , Protégé, RDF, OWL/OWL 2, SPARQL

Skills: Object-Orientation, Extreme Programming, MVC, Network and Concurrent Programming, Linux System Administration, Office Software Suites

Languages

Portuguese: Mother-tongue

English: IELTS Academic (02/2018): Overall 8.0 (CEFR C1)

Reading: 9.0 - Listening: 9.0 - Writing: 7.5 - Speaking: 7.0

Research Interests

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| - Logics | - Ontology Repair |
| - Semantic Technologies | - Artificial Intelligence |
| - Knowledge Graphs | - Representation Learning |
| - Belief Change | - Knowledge Representation |