Ricardo Ferreira Guimarães

Education

PhD in Computer Science

São Paulo-SP, Brazil

Institute of Mathematics and Statistics - University of São Paulo

03/2015-01/2020

Supervisor: Professor Renata Wassermann

Thesis: Modularity in Belief Change of Description Logic Bases

BSc in Computer Science

São Paulo-SP, Brazil

Institute of Mathematics and Statistics - University of São Paulo

2011-2014

Honourable Mention

Bachelor Dissertation/Project: Extensions to the AML ontology aligner

Apprentice Maintenance Electrician

São Paulo-SP. Brazil

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

2008-2009

Honourable Mention

Experience

Department of Informatics - University of Bergen

Bergen, Norway

Postdoctoral Research Fellow

12/2020-Present

Project: Lossy Preprocessing (LOPRE)

Faculty of Computer Science - Free University of Bozen-Bolzano

Bolzano, Italy 03/2020-11/2020

Research Assistant

Teaching Assistant

Project: PAC Learning with Ontologies

Manchester, UK

School of Computer Science - University of Manchester *Academic Visitor*

04/2018-12/2018

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

Institute of Mathematics and Statistics - University of São Paulo

São Paulo-SP, Brazil

2017

Course: Introduction to Logic and Program Verification.

Institute of Mathematics and Statistics - University of São Paulo

São Paulo-SP, Brazil

2016

Teaching Assistant
Course: Introduction to Computing for Exact Sciences and Technology.

Institute of Mathematics and Statistics - University of São Paulo

São Paulo-SP, Brazil

Network Administrator of the Rede Linux

2013-2014

Published and Presented Works

Papers

o Jandson S. Ribeiro, Ricardo Guimarães, Ana Ozaki. *Revising Ontologies via Models: The 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. Pseudocontractions 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)

Lecturer

Department of Informatics - University of Bergen

08/2021-12/2021

Topic: Ontologies and Knowledge Graphs: RDF, OWL, Description Logics, SPARQL, Statistical Relational Learning, Knowledge Graph Embeddings

Grants

 Meltzer
 Grant

 43200.00 NOK, Travel Support
 03/2022–03/2023

FAPESP *76477.47 BRL, Research Internship Abroad*Grant
04/2018–01/2019

FAPESP91056.42 BRL

Scholarship
08/2017–01/2020

CAPES49800.00 BRL

03/2015–07/2017

Computer skills

Programming Languages: Python, Java, C, Bash, Lua, Prolog, Rust

Tools: GNU/Linux, Git, SQL, LATEX, Protégé, RDF, OWL/OWL 2, SPARQL, Jupyter

Skills: Object-Orientation, Extreme Programming, MVC, Network and Concurrent Programming,

Basic Linux System Administration, Office Software Suites

Other Roles

Supervision: 2 Master students (ongoing) and 2 PhD students (ongoing)

Examiner: External Sensor (University of Oslo, Semantic Technologies, 2021), Internal Sensor

(University of Bergen, Project in Informatics, 2021)

PC Member: KR 2022 (conference), DL 2022 (workshop)

Reviewer: Information and Computation Journal (2021), Artificial Intelligence Journal (2020)

Organiser: Artificial Intelligence in Bergen 2022 (research school)

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

- Description Logics

- Semantic Technologies

- Ontology Repair

- Belief Change

- Knowledge Graphs

- Explainable AI

- Representation Learning

- Knowledge Representation