

Dr Jandson S Ribeiro - Curriculum Vitae

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Research Interests

Artificial Intelligence, Knowledge Representation and Reasoning, Formal Methods and Logics.

Education

- 2020** **PhD in Computer Science**
 Macquarie University (Australia) and University of São Paulo (Brazil) - Cotutelle
 Thesis: Belief Change without Compactness
 Supervisors: Prof Abhaya Nayak and Prof Renata Wassermann
- 2016** **MSc in Computer Science**
 Federal University of Bahia, Brazil
 Thesis: A Solution for Refinement of KMTSs Based on Model Checking Games
 Supervisors: Prof Aline Andrade
- 2014** **BSc in Computer Science**
 Federal University of Bahia, Brazil
 Thesis: Implementation of KMTS Model Refinement Based on Model Checking Games
 Supervisors: Prof Aline Andrade

Academic Positions

- 2021 - present** Postdoctoral Researcher; FernUniversität in Hagen, Germany
- 2020 - 2021** Postdoctoral Researcher; University of Koblenz-Landau, Germany

Prizes and Awards

- 2020** **Best Latin American PhD Thesis in Computer Science (2nd Place)**
by Latin American Center for Computer Studies (CLEI)
- 2020** **Top 3 PhD Theses of the Year**
by Macquarie University
- 2020** **Vice-Chancellor's Commendation for Academic Excellence Award.**
to PhD Thesis, by Macquarie University
- 2018** **Marco Cadoli Distinguished Student Paper Prize, KR 2018.**
to paper: Ribeiro, J S., Nayak, A., Wassermann R., Towards Belief Contraction without Compactness. In International Conference on Principles of Knowledge Representation and Reasoning (16th KR): 287-296.
- 2018** **Computing HDR Research Excellence Award.**
by Macquarie University.

Grants and Scholarships

- 2019 - 2019 Postgraduate Research Fund (PGRF)**
by Macquarie University
Value: AUD 5,000 (maximum value)
- 2016 - 2020 PhD Scholarship**
by Macquarie University and CAPEs Foundation within Brazilian Ministry of Education
- 2014 - 2016 MSc Scholarship**
by FAPESB Research Foundation within Bahia State Ministry of Education

Undergraduate Scientific Initiation Grants

- 2013 - 2014** *Project: Service Bus Architecture as an infrastructure for the Web of Things*
by Federal University of Bahia
- 2012 - 2013** *Project: Providing Several Levels of Interoperability in a Service-Oriented Architecture for Collaborative Systems*
by CNPq within the Brazilian Ministry of Education
- 2011 - 2011** *Project: States of equilibrium in non-hyperbolic dynamics*
by CNPq within the Brazilian Ministry of Education

Travel Grants

- 2019** IJCAI Student Travel Grant for attending IJCAI 2019.
- 2018** KR Student Travel Grant for attending KR 2018.

Project Funds Acquired

- 2021 German Research Foundation (DFG)**, 639 000 EUR (own share: 319 500 EUR)
Explainable Belief Merging (EBM)
- 2021 FernUniversität Hagen**, 42 000 EUR (own share: 42 000 EUR)
Algorithms for Belief Change (ABC)

Service

Events Organisation

- 2022** Doctoral Consortium at KR 2022 (co-chair)
XX Brazilian Logic Conference (EBL)
Workshop on Logics for Middle and High School Students (WoLF)

Program Committee

- 2023** The International Conference on Principles of Knowledge Representation and Reasoning (KR)
The AAAI International Conference on Artificial Intelligence (AAAI)
The International Joint Conference on Artificial Intelligence (IJCAI)
- 2022** The International Conference on Principles of Knowledge Representation and Reasoning (KR)
The AAAI International Conference on Artificial Intelligence (AAAI)
The International Joint Conference on Artificial Intelligence (IJCAI)
- 2021** The International Joint Conference on Artificial Intelligence (IJCAI)
The International Conference on Principles of Knowledge Representation and Reasoning (KR)
The Pacific Rim International Conferences on Artificial Intelligence (PRICAI)
- 2020** The 29th International Joint Conference on Artificial Intelligence (IJCAI)

Reviewer

Journals Artificial Intelligence Journal (AIJ)
 Journal of Artificial Intelligence Research (JAIR)
 ACM Transactions on Computational Logic (TOCL)

Conferences

2020 International Conference on Principles of Knowledge Representation and Reasoning (KR20)
 2019 European Conference on Logics in Artificial Intelligence (JELIA19)
 2018 Brazilian Conference on Intelligent Systems (BRACIS18)

Teaching**Lecturer****FernUniversität in Hagen, Germany**

10/2022 - ongoing Research Laboratory: Knowledge-Based Cooperative Games (in English)
 04/2022 - 09/2022 Seminar SAT Solving (in English)

University of Koblenz-Landau, Germany

04/2021 - 07/2021 Semantic Web (in English)
 11/2020 - 03/2021 Seminar Knowledge in Flux (in English)

Federal University of Bahia, Brazil

08/2014 - 12/2014 Theory of Computation (in Portuguese)

Teaching Assistant**University of Koblenz-Landau, Germany**

04/2020 - 08/2020 Semantic Web (in English)

Macquarie University, Australia

08/2018 - 11/2018 Database Systems (in English)

University of São Paulo, Brazil

03/2017 - 07/2017 Introduction to Computer Programming (in Portuguese)
 08/2016 - 12/2016 Introduction to Computer Logic and Formal Verification (in Portuguese)

Federal University of Bahia, Brazil

08/2014 - 12/2014 Theory of Computation (in Portuguese)
 11/2012 - 04/2013 Theory of Computation (in Portuguese)
 08/2011 - 12/2011 Formal Languages and Automata (in Portuguese)
 03/2011 - 07/2011 Introduction to Formal Languages and Theory of Computation (in Portuguese)
 08/2010 - 12/2010 Introduction to Computer Programming (in Portuguese)

International Research Visits

02/2019 Prof Chitta Baral. Arizona State University (ASU), Tempe - Arizona, United States of America (USA).

Presentations

Invited Talks

- 2022** - Kernel Contraction and the Order of Relevance, *in the Seminars of ToLOCA - Computer Theory, Logics, Optimization, Combinatory and Algorithms*. Department of Computer Science, Federal University of Bahia, Salvador, Brazil, May, 2022.
- 2019** - On Compactness and Belief Update, *in the Knowledge Representation and Reasoning Conventicle*. School of Computer Science and Engineering, UNSW. Sydney, March, 2019.
- Belief Change and Non-monotonic Reasoning sans Compactness, *in the 33rd AAAI Conference on Artificial Intelligence*, January, 2019. **(a limited number of talks was selected for presentation)**
- 2018** - Towards Belief Contraction without Compactness, *in the Computing HDR Seminar for Research Excellence*. Department of Computing, Macquarie University. Sydney, November, 2018.
- Towards Belief Contraction without Compactness, *in the International Conference on Principles of Knowledge Representation and Reasoning (16th KR)*, October, 2018. **(plenary presentation)**

Selected Publications

Journals

- [j1] **Jandson S Ribeiro**. "A Visit to Belief Change without Compactness". In: *CLEI Electron. J.* 24.1 (2021)

Full Papers on International Conferences

- [c1] Ricardo Guimarães, Ana Ozaki and **Jandson S Ribeiro**. "Finite Based Contraction and Expansion via Models". In: *The Thirty-Seventh AAAI Conference on Artificial Intelligence, AAAI 2023*. Forthcoming
- [c2] **Jandson S Ribeiro**. "Kernel Contraction and the Order of Relevance". In: *Principles of Knowledge Representation and Reasoning: Proceedings of the 19th International Conference, KR 2022*. 2022
- [c3] **Jandson S Ribeiro** and Matthias Thimm. "Consolidation via Tacit Culpability Measures: Between Explicit and Implicit Degrees of Culpability". In: *Principles of Knowledge Representation and Reasoning: Proceedings of the 18th International Conference, KR 2021*. 2021, pp. 529–538
- [c4] **Jandson S Ribeiro**, Viorica Sofronie-Stokkermans and Matthias Thimm. "Measuring Disagreement with Interpolants". In: *Proceedings of the 14th International Conference on Scalable Uncertainty Management (SUM'20)*. 2020, pp. 84–97
- [c5] **Jandson S Ribeiro**, Abhaya Nayak and Renata Wassermann. "Belief Update without Compactness in Non-finitary Languages". In: *Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence, IJCAI 2019, Macao, China, August 10-16, 2019*. ijcai.org, 2019, pp. 1858–1864
- [c6] **Jandson S Ribeiro**, Abhaya Nayak and Renata Wassermann. "Belief Change and Non-Monotonic Reasoning Sans Compactness". In: *The Thirty-Third AAAI Conference on Artificial Intelligence, AAAI 2019*. AAAI Press, 2019, pp. 3019–3026
- [c7] **Jandson S Ribeiro**, Abhaya Nayak and Renata Wassermann. "Towards Belief Contraction without Compactness". In: *Principles of Knowledge Representation and Reasoning: Proceedings of the Sixteenth International Conference, KR 2018*. AAAI Press, 2018, 287–296 **(awarded the prestigious Marco Cadoli Distinguished Student paper Prize)**
- [c8] **Jandson S Ribeiro** and Aline Andrade. "A 3-Valued Contraction Model Checking Game: Deciding on the World of Partial Information". In: *Proceeding of the 17th International Conference on Formal Engineering Methods, ICFEM 2015*. Vol. 9407. Lecture Notes in Computer Science. Springer, 2015, pp. 84–99

Papers on International Workshops

[w1] **Jandson S Ribeiro**. "Towards a Semantic Construction for Belief Base Contraction (A Preliminary Report)". In: *Proceedings of the 8th Workshop on Formal and Cognitive Reasoning*. CEUR Workshop Proceedings. CEUR-WS.org, 2022, pp. 4–15

[w2] **Jandson S Ribeiro**, Ricardo Guimarães and Ana Ozaki. "Revising Ontologies via Models: The ALC-formula Case". In: *The 34th International Workshop on Description Logics (DL 2021)*. 2021

Supervisions

(2022) Julia Schedel, FernUniversität in Hagen, MSc thesis, *ongoing*.

(2022) Melinda Betz, FernUniversität in Hagen, BSc thesis, *ongoing*.

(2021) Mark Oliver Mints, University of Koblenz-Landau, MSc research project, *ongoing*.

(2015) Marino Souza, Federal University of Bahia, Scientific Initiation Program (BSc, completed)

(2015) Miguel Breno, Federal University of Bahia, Scientific Initiation Program (BSc, completed)

Languages

English: Proficient

German: A2

French: DELF B1

Portuguese: Mother-tongue

21st November 2022

Dr Jandson S Ribeiro