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Profile

PhD student in Computer Science at the Federal University of Rio Grande do Sul (UFRGS), Brazil, researching guidelines for efficient 3D data exploration with Immersive Analytics under the supervision of Prof. Luciana Nedel and Prof. Wolfgang Stuerzlinger. Currently a Fulbright Visiting Student Researcher at New York University working under the supervision of Prof. Claudio Silva (2021-2022). Jorge is also currently a 2022-2023 Microsoft Research PhD Fellow. Previously, he completed a six-month research internship with Prof. Stuerzlinger at Simon Fraser University, Canada, as part of Global Affairs Canada's Emerging Leaders in the Americas program (2019). Jorge holds MSc in Computer Science (2017-2018) and BSc in Computer Science (2011-2016) degrees from UFRGS, receiving *summa cum laude* honors and the Brazilian Computer Society (SBC) Outstanding Student award for academic excellence. During his undergraduate education, also attended Queen Mary University of London for a year (2014) as an exchange student.

Education

PhD Computer Science, March 2018-Present

Federal University of Rio Grande do Sul, Porto Alegre, Brazil

Thesis: *“Designing and Evaluating Immersive Analytics Environments for Spatio-Temporal Data”*

Advisors: Prof. Dr. Luciana Nedel and Prof. Dr. Wolfgang Stuerzlinger

- Six-month research internship with Prof. Dr. Wolfgang Stuerzlinger at the School of Interactive Arts and Technology, Simon Fraser University (Vancouver, Canada), as part of Global Affairs Canada's Emerging Leaders in the Americas program (2019)
- Ongoing nine-month research internship with Prof. Dr. Claudio Silva at the Tandon School of Engineering, New York University (USA), supported by the U.S. Department of State's Fulbright Program (2021-2022)
- 2022-2023 Microsoft Research PhD Fellow

MSc Computer Science, March 2017-March 2018

Federal University of Rio Grande do Sul, Porto Alegre, Brazil

Dissertation: *“Evaluating Immersive Approaches to Multidimensional Information Visualization”*

Advisors: Prof. Dr. Luciana Nedel and Prof. Dr. Carla Freitas

- Awarded the UFRGS Computer Science Graduate Program Vote of Praise, a *summa cum laude* honor (2018)

- Finalist in the Brazilian Computer Society Theses and Dissertations Award (2019)

BSc Computer Science, January 2011-August 2016

Federal University of Rio Grande do Sul, Porto Alegre, Brazil

Final Project: “Automatic collection of Web corpora classified by readability level for Brazilian Portuguese”

Advisor: Prof. Dr. Aline Villavicencio

- Awarded the University Academic Laurel, a *summa cum laude* honor (2016)
- Awarded the Outstanding Student Award from the Brazilian Computer Society (2016)
- Worked as an undergraduate research assistant from February 2013 to August 2016 under the supervision of Prof. Dr. Aline Villavicencio, in the projects "Using Natural Language Processing for Vocabulary Learning and Recognition", "Creation of Natural Language Processing Tools and Computational Resources for Computational-Cognitive Studies" and "Text Simplification of Complex Expressions"

Queen Mary University of London, United Kingdom

Exchange Student from September 2014 to September 2015

- Research Student from June 2015 to September 2015 in the project “An Incremental Natural Language Generation Agent” under the supervision of Prof. Dr. Matthew Purver.

Languages

Portuguese — Native language

English — Fluent (CEFR C2)

French — Beginner (CEFR A1)

Scientific Activities

Peer Reviewing

IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR) — 2018, 2019, 2020, 2021, 2022

IEEE Conference on Visualization (IEEE VIS) — 2019, 2020, 2021, 2022

IEEE Pacific Visualization Symposium (IEEE PacificVis) — 2020

IEEE International Symposium on Mixed and Augmented Reality (ISMAR) — 2020, 2021, 2022*

ACM Symposium on Virtual Reality Software and Technology (VRST) — 2020

SBC Symposium on Virtual and Augmented Reality (SVR) — 2020

ACM Conference on Human Factors in Computing Systems (CHI) — 2021, 2022

ACM Symposium on User interface Software and Technology (UIST) — 2021

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) — 2021

Cartography and Geographic Information Science (CaGIS) — 2021

EG Conference on Visualization (EuroVis) — 2022

Scientific Reports — 2022

** Special Recognitions for Outstanding Reviews*

Event Organization

Publications Co-chair at the SBC Symposium on Virtual and Augmented Reality (SVR) — 2021

Conference Presentations

EG/VGTC Conference on Visualization (EuroVis) — 2018

IEEE Conference on Visualization (IEEE VIS) — 2019, 2019

SBC Symposium on Virtual and Augmented Reality (SVR) — 2019

IEEE Conference on Virtual Reality and 3DUI (IEEE VR) — 2021

Summer Schools & Forums

São Paulo School of Advanced Science on Learning from Data at the University of São Paulo (USP) in August 2019

8th Heidelberg Laureate Forum (HLF) in September 2021 — Invited to attend as part of a group of 200 Young Researchers selected from over 900 international applicants.

Grants and Scholarships

Microsoft Research PhD Fellowship provided to 45 distinguished Ph.D. students to help complete research as part of their doctoral thesis works for academic year 2022–23. Opportunities will be provided to build relationships with research teams at Microsoft and receive mentorship.

Fulbright Visiting Student Researcher Scholarship from the U.S. Department of State to attend New York University (USA) for nine months (September 2021 - May 2022) as a visiting PhD researcher in Prof. Dr. Claudio Silvar's lab

Emerging Leaders in the Americas Scholarship from Global Affairs Canada to attend Simon Fraser University (Canada) for six months (January-June 2019) as a visiting PhD student in Prof. Dr. Wolfgang Stuerzlinger's lab

Science Without Borders Scholarship from the Brazilian National Council for Scientific and Technological Development (CNPq) to attend Queen Mary University of London (UK) for a year (September 2014-September 2015) as an exchange undergraduate student

Ph.D. Scholarship from the Brazilian National Council for Scientific and Technological Development (CNPq) and the Brazilian Coordination for the Improvement of Higher Education Personnel (CAPES) (2018-2022)

M.Sc. Scholarship from the Brazilian National Council for Scientific and Technological Development (CNPq) (2017-2018)

Summer School Scholarship from the São Paulo Research Foundation (FAPESP) to attend the *São Paulo School of Advanced Science on Learning from Data* at the University of São Paulo in August 2019

Conference Scholarship from the IEEE VR Inclusion, Diversity, and Accessibility program to attend the conference virtually in March 2021

Undergraduate Research Scholarship from January 2016 to August 2016 sponsored by Samsung Brazil to work in Prof. Dr. Aline Villavicencio's lab

Undergraduate Research Scholarship from the Rio Grande do Sul Research Foundation (FAPERGS) from February 2013 to August 2014 to work in Prof. Dr. Aline Villavicencio's lab

Publications

Google Scholar citation count as of May 2022: 218 (h-index 7)

Jorge Wagner, Wolfgang Stuerzlinger, Luciana Nedel (2021). **Comparing and Combining Virtual Hand and Virtual Ray Pointer Interactions for Data Manipulation in Immersive Analytics**. IEEE Transactions in Visualization and Computer Graphics 27(5) — Presented at the 2021 IEEE Conference on Virtual Reality and 3D User Interfaces. <https://doi.org/10.1109/TVCG.2021.3067759>

Jorge Wagner, Wolfgang Stuerzlinger, Luciana Nedel (2021). **The Effect of Exploration Mode and Frame of Reference in Immersive Analytics**. IEEE Transactions in Visualization and Computer Graphics (to appear). <https://doi.org/10.1109/TVCG.2021.3060666>

Jorge A. Wagner Filho, Wolfgang Stuerzlinger, Luciana Nedel (2019). **Evaluating an Immersive Space-Time Cube Geovisualization for Intuitive Trajectory Data Exploration**. IEEE Transactions in Visualization and Computer Graphics 26(1) — Presented at the 2019 IEEE Visualization Conference. <https://doi.org/10.1109/TVCG.2019.2934415>

Jorge A. Wagner Filho, Carla M.D.S. Freitas, Luciana Nedel (2019). **Comfortable Immersive Analytics With the VirtualDesk Metaphor**. IEEE Computer Graphics and Applications 39(3) — Presented at the 2019 IEEE Visualization Conference. <https://doi.org/10.1109/MCG.2019.2898856>

Jorge A. Wagner Filho, Carla M.D.S. Freitas, Luciana Nedel (2018). **VirtualDesk: A Comfortable and Efficient Immersive Information Visualization Approach.** Computer Graphics Forum 37(3) — Presented at EG/VGTC EuroVis 2018. <https://doi.org/10.1111/cgf.13430>

Jorge A. Wagner Filho, Rodrigo Wilkens, Marco Idiart, Aline Villavicencio (2018). **The brWaC Corpus: A New Open Resource for Brazilian Portuguese.** International Conference on Language Resources and Evaluation (LREC).

Jorge A. Wagner Filho, Marina F. Rey, Carla M.D.S. Freitas, Luciana Nedel (2018). **Immersive Visualization of Abstract Information: An Evaluation on Dimensionally-Reduced Data Scatterplots.** IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR). <https://doi.org/10.1109/VR.2018.8447558>

Jorge A. Wagner Filho, Marina F. Rey, Carla M.D.S. Freitas, Luciana Nedel (2017). **Immersive Analytics of Dimensionally-Reduced Data Scatterplots.** IEEE VIS 2017 Workshop on Immersive Analytics: Exploring Future Interaction and Visualization Technologies for Data Analytics.

Jorge Alberto Wagner Filho, Rodrigo Wilkens, Aline Villavicencio (2016). **Automatic Construction of Large Readability Corpora.** COLING Workshop on Computational Linguistics for Linguistic Complexity (CL4LC).

Jorge Alberto Wagner Filho, Rodrigo Wilkens, Leonardo Zilio, Marco Idiart, Aline Villavicencio (2016). **Crawling by Readability Level.** International Conference on the Computational Processing of Portuguese (PROPOR). https://doi.org/10.1007/978-3-319-41552-9_31

Rodrigo Wilkens, Leonardo Zilio, Marco Idiart, Jorge Alberto Wagner Filho, Eduardo Ferreira, Luis Santos, Bianca Pasqualini, Aline Villavicencio (2016). **Resources for Monolingual Translation: a case study of Text Simplification for Portuguese.** PROPOR Workshop on Corpora and Tools for Processing Corpora.