

Lucas Ranière Juvino Santos

Ph.D., Developer and Researcher

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Academic Experience

2021 - 2025

Ph.D. in Computer Science

Federal University of Campina Grande, Campina Grande - PB, Brazil

- Research Topics: Political polarization and radicalization on social media networks.
- December 2023 - August 2024: Visiting PhD Researcher at Indiana University (Bloomington - Indiana)

2018 - 2020

Master's Degree in Computer Science

Federal University of Campina Grande, Campina Grande - PB, Brazil

- Research Topics: Experimental software engineering and software artifacts traceability;
- Dissertation Title: Improving Traceability Recovery Between Bug Reports and Manual Test Cases.

2012 - 2017

Bachelor's Degree in Computer Science

Federal University of Alagoas, Arapiraca - AL, Brazil

- Research Topics: Text translation into sign language and digital inclusion of deaf people;
- Term Paper Title: Use of Probabilistic Reasoning to Resolve Lexical Ambiguities in Portuguese.

Research Projects

2025 - Currently

Judo-AI: Applied Computer Vision for combat sports (Judo)

Software Practices Laboratory (SPLab - UFCG) - IBM - Flamengo

- Computer Vision
 - Object detection
 - Video segmentation
 - Human Action Recognition
 - Video understanding

2024 - 2025

Agents4Good: Intelligent Agents for Automatic Fact-checking

Federal University of Campina Grande - Kunumi Institute

- Social Computing
- IA Agents
 - LangChain and LangGraph
- Natural Language Processing

- Speech Analysis
- Argument Analysis
- Toxicity detection

2021 - 2022

Advanced Intelligent Channels: Applied Machine Learning for sales/support chat automation

Federal University of Campina Grande - Dell

- Natural Language Processing
- Machine Learning

Publications

Can Large Language Models Effectively Mitigate Polarization in Social Media Text?

Lucas Ranière Juvino Santos, Leandro Balby Marinho Marinho, Claudio Elizio Calazans Campelo, Filippo Menczer, and Alessandro Flammini

In Proceedings of the 17th ACM Web Science Conference (WebSci '25).

Association for Computing Machinery, New York, NY, USA, 348–357.

<https://doi.org/10.1145/3717867.3717904>

Uniting Politics and Pandemic: a Social Network Analysis on the COVID Parliamentary Commission of Inquiry in Brazil.

Lucas Ranière Juvino Santos, Leandro Balby Marinho, and Claudio Elizio Calazans Campelo. 2022.

In Proceedings of the Brazilian Symposium on Multimedia and the Web (WebMedia '22).

Association for Computing Machinery, New York, NY, USA, 99–107.

<https://doi.org/10.1145/3539637.3556992>

Improving Traceability Recovery Between Bug Reports and Manual Test Cases.

Lucas Ranière Juvino Santos, Guilherme Gadelha, Franklin Ramalho, and Tiago Massoni. 2020.

In Proceedings of the XXXIV Brazilian Symposium on Software Engineering (SBES '20).

Association for Computing Machinery, New York, NY, USA, 293–302.

<https://doi.org/10.1145/3422392.3422424>