

Anderson Luis Bento Soares

M.Sc. Student in Computer Science · Institute of Computing, University of Campinas (Unicamp)

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Research Interests

Fairness, ideological sycophancy, and the identification and mitigation of bias in large language models, with an emphasis on Brazilian educational and societal benchmarks. Knowledge graphs and retrieval-augmented generation as tools for grounding and evaluating model outputs.

Education

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|---------------------------|---|
| 2025 – 2027
(expected) | M.Sc. in Computer Science
Institute of Computing, University of Campinas (Unicamp), Brazil
Advisor: Prof. Zanoni Dias · Co-advisor: Prof. Ruben Interian
Laboratory: LIV — Laboratório de Informática Visual · Funding: FUNCAMP |
| 2021 – 2024 | B.Sc. in Computer Science — <i>Summa Cum Laude</i>
Federal University of Ceará (UFC), Quixadá campus, Brazil
Undergraduate thesis: <i>Mouthcheck: a support tool for oral cancer diagnosis using convolutional neural networks</i> (in Portuguese)
Advisor: Prof. Lucas Ismaily Bezerra Freitas |
| 2018 – 2020 | Technical Course in Computer Networks
EEEP José Vidal Alves, Ceará, Brazil |

Research Lines

Bias and fairness in language models

Measuring how language models reproduce, amplify, or mitigate social, political, and demographic biases across diverse representation prompts.

Evaluation in the Brazilian context

Building and analyzing benchmarks grounded in Brazilian social, educational (ENEM, FUVEST, Unicamp), and cultural settings.

Ideological sycophancy and echo chambers

Political personalization, echo chamber dynamics, and sycophantic responses in language models, and their mitigation through retrieval-augmented generation.

Multimodal reasoning

Evaluating small vision-language models on exam-based multimodal reasoning tasks and structured document understanding.

Publications

Journal Articles

- [J1] **Anderson Luis Bento Soares**, Bruno Antonio Veiga de Almeida, Leonardo Nascimento Ferreira, Anderson Rocha, Ruben Interian, Zanoni Dias. *LLMs are ideological chameleons: personalized echo chambers in the Brazilian political context*. Scientific Reports, 16, article 23184, 2026. [doi:10.1038/s41598-026-52105-6](https://doi.org/10.1038/s41598-026-52105-6)

- [C6] **Anderson Luis Bento Soares**, Leonardo Nascimento Ferreira, Giovani Mambrim Leme, Matheus Ferracciú Scatolin, Ruben Interian, Zanoni Dias. *Enem-VL: A Multimodal Benchmark of Brazilian Exams for Evaluating Vision-Language Models*. Intelligent Systems (BRACIS 2026), Springer Nature Switzerland, pp. 309–324, 2027. doi:10.1007/978-3-032-39882-6_21
- [C5] **Anderson Luis Bento Soares**, Leonardo Nascimento Ferreira, Ruben Interian, Zanoni Dias. *How Large Language Models Profile Brazilians: Socioeconomic Attribution and Stereotypes*. Intelligent Systems (BRACIS 2026), Springer Nature Switzerland, pp. 277–292, 2027. doi:10.1007/978-3-032-39882-6_19
- [C4] Giovani Mambrim Leme, Matheus Ferracciú Scatolin, **Anderson Luis Bento Soares**, Leonardo Nascimento Ferreira, Ruben Interian, Zanoni Dias. *How Well Do Small Language Models Understand the Brazilian Educational Context? An Evaluation on ENEM, FUVEST and Unicamp*. ENIAC 2026, Springer LNAI, 2026. Accepted for publication.
- [C3] **Anderson Luis Bento Soares**, Leonardo Nascimento Ferreira, Ruben Interian, Zanoni Dias. *Can Retrieval-Augmented Generation Reduce Ideological Sycophancy in Large Language Models?*. LACCI 2026, IEEE Xplore, 2026. Accepted for publication.
- [C2] Juliana Midlej, **Anderson Luis Bento Soares**, Leonardo Nascimento Ferreira, Helio Pedrini, Zanoni Dias. *Who Gets Recommended What? Gender and Race/Color Biases in LLM Recommendations for Brazilian Undergraduate Fields*. LACCI 2026, IEEE Xplore, 2026. Accepted for publication.
- [C1] Andreina Maria Mendes da Silva, **Anderson Luis Bento Soares**, Erick Correia Silva, Brena Rodrigues Machado, Carla Ilane Moreira Bezerra. *Ensino de Programação Remoto com Dojo de Programação Usando Método Randori*. XXXIII Simpósio Brasileiro de Informática na Educação (SBIE 2022), SBC, pp. 128–138, 2022. doi:10.5753/sbie.2022.224820

Research Experience

- 2025 – present **Artificial Intelligence Researcher**
Institute of Computing, Unicamp – LIV
Research on knowledge graphs, retrieval-augmented generation, large language models, and the evaluation of ideological bias in artificial intelligence systems, together with the development of research projects and academic publications.
- 2021 – 2024 **Undergraduate Research Fellow, Tutorial Education Program (PET TI)**
Federal University of Ceará (UFC), Quixadá
Fellow in a program combining research, teaching, and outreach with an emphasis on cooperative learning.

Teaching Experience

- 2026 (2nd term) **Teaching Assistant — Teaching Internship Program (PED)**
Institute of Computing, Unicamp
MC102 — Algorithms and Computer Programming

Awards and Honors

- 2024 **Summa Cum Laude**
B.Sc. in Computer Science, Federal University of Ceará (UFC)

Scholarships and Funding

- 2025 – present **M.Sc. research funding**
FUNCAMP — Development Foundation of Unicamp

2021 – 2024 **Undergraduate fellowship, Tutorial Education Program (PET)**
Brazilian Ministry of Education (MEC/FNDE)

Outreach and Service

2021 – 2024 **Co-organizer, InfoGirl and GameNight**
PET TI, Federal University of Ceará (UFC)
Outreach initiatives promoted by the PET TI group.

2021 – 2024 **State representative of UFC, INTERPET movement**
Ceará, Brazil
Movement that promotes integration among PET groups in the state of Ceará.

Technical Skills

Programming	Python, LaTeX
Machine learning & NLP	PyTorch, Hugging Face, LangChain
Data & knowledge	Neo4j (knowledge graphs), retrieval-augmented generation pipelines
Methods	LLM evaluation and benchmarking, bias measurement, convolutional neural networks

Languages

Portuguese	Native
English	Intermediate