

Leonardo Bertolazzi

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Education

- Ph.D. in Computer Science**, University of Trento Nov 2023 - Current
- M.Sc. in Cognitive Science**, University of Trento Sept 2021 - Oct 2023
- **Cumulative GPA**: 29.63/30, **Specialization**: Computational linguistics.
- B.A. in Philosophy**, University of Trento Sept 2018 - July 2021
- **Cumulative GPA**: 29.61/30, **Specialization**: Logic and philosophy of language.

Publications

- Leonardo Bertolazzi**, Albert Gatt, Raffaella Bernardi. 2024. A Systematic Analysis of Large Language Models as Soft Reasoners: The Case of Syllogistic Inferences. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing*.
- Leonardo Bertolazzi**, Davide Mazzaccara, Filippo Merlo, Raffaella Bernardi. 2023. ChatGPT's Information Seeking Strategy: Insights from the 20-Questions Game. In *Proceedings of the 16th International Natural Language Generation Conference*.

Work Experience

- Research Intern** February 2023 - June 2023
Language, Interaction and Computation Laboratory (CLIC), Rovereto, IT
- Work on quantitatively measuring the quality of state-of-the-art LLMs' questions in information-seeking settings under the supervision of Professor Raffaella Bernardi.
 - The internship led to the publication of *ChatGPT's Information Seeking Strategy: Insights from the 20-Questions Game*, which received the best paper award at INLG 2023.
- Teaching Assistant** A.Y. 2023-24, 2024-25
Grounded Language Processing, M.Sc. AI & M.Sc. CogSci, University of Trento
- Held laboratory classes and created notebooks on self-supervised learning, multimodal learning, grounded NLU with CLIP-style models, grounded NLG with VLMs, and evaluation techniques for multimodal systems.

Open Source Projects

- JUDGE-BENCH Benchmark**, available at github.com/dmg-illc/JUDGE-BENCH
- Contributed to the development of a benchmark to study the quality of LLMs annotations across a large collection of classic NLP evaluation tasks.

Skills

- Programming** Python, R, Git, Linux, LaTeX
- Systems/Tools** SLURM, High-Performance Computing, Cloud computing
- ML Frameworks** PyTorch, PyTorch Lightning, Scikit-learn, OpenCV, W&B
- Data Science Frameworks** NumPy, Pandas, SciPy

Academic Service

- Student Volunteer**, EMNLP, 2024
- Reviewer**, CLiC-it, 2024

Honors and Awards

- Best Paper Award**, Evaluation Category, INLG, 2023
- Best Master Thesis Award**, for topics connecting CogSci and AI, Fondazione Alvisè Comel, Rovereto, IT, 2024