Ana Ezquerro

PHD STUDENT AT GRAZ UNIVERSITY OF TECHNOLOGY

✉ ana.ezquerro@tugraz.at | ◈ anaezquerro.github.io | **in** anaezquerro01 | ⓘ 0009-0006-2347-9706 | 🎓 aVWJFm0AAAAJ

Access to the official web announcement is available via 🔗. All authored papers and theses include hyperlinks to their official publication websites.

EDUCATION

Ph.D. in Efficient and Trustworthy Learning Algorithms　　　　　　　　　　　　*Graz, Austria*
Graz University of Technology, Institute of Machine Learning and Neural Computation　　*09-2025 – Present*
- Selected for a PhD position at TU Graz under the supervision of Ozan Özdenizci within the Bilateral AI project.

M.S. in Artificial Intelligence 🎓　　　　　　　　　　　　　　　　　　　　　*A Coruña, Spain*
University of A Coruña, Faculty in Computer Science　　　　　　　　　　　　　　*09-2023 – 03-2025*
- Honor distinction in the Master's Thesis: *Graph Parsing as Sequence Labeling* (to appear at RUC, temporally at 🔗).

B.S. in Data Science and Engineering 🎓　　　　　　　　　　　　　　　　　*A Coruña, Spain*
University of A Coruña, Faculty in Computer Science　　　　　　　　　　　　　　*09-2019 – 07-2023*
- Best Academic Record (Top 1 out of 67).
- Honor distinction in the Bachelor's Thesis: *Fully incremental parsing based on neural networks*.

EXPERIENCE

Research Engineer　　　　　　　　　　　　　　　　　　　　　　　　　　*A Coruña, Spain*
University of A Coruña, LyS Group　　　　　　　　　　　　*07/2023 – 09/2025 (full-time, on-site)*
Novel algorithms for graph and tree parsing and deep learning architectures for structured NLP tasks. Enhanced multimodal alignment for multimodal systems.

Data Scientist (Internship)　　　　　　　　　　　　　　　　　　　　　　*A Coruña, Spain*
ABANCA, Venancio Salcines Foundation　　　　　　　　　*02/2023 - 09/2023 (part-time, on-site)*
Advanced Statistical models and ML techniques (supervised and unsupervised) to predict commercial activities in the customer intelligence area. Implementation of full data pipelines to extract and preprocess large datasets.

ML Engineer (Internship)　　　　　　　　　　　　　　　　　　　　　　*A Coruña, Spain*
Galician Institute in Technology　　　　　　　　　　　　*09/2022 – 10/2022 (part-time, hybrid)*
Fine-tuning and evaluation of NLP and ASR models to design a mental healthcare chatbot with text and audio support.

Research Assistant　　　　　　　　　　　　　　　　　　　　　　　　　*A Coruña, Spain*
University of A Coruña, Santander Bank　　　　　　🔗 *09/2021 – 04/2022 (full-time, on-site)*
Research collaboration with the MODES Group in the Department of Mathematics. Development of a new method for automatic covariates selection in dynamic regression models (ARIMAX) for time series analysis.

Research Assistant　　　　　　　　　　　　　　　　　　　　　　　　　*A Coruña, Spain*
Centre for Information and Communications Technology Research (CITIC)　🔗 *07/2021 – 09/2021 (full-time, on-site)*
Analysis and comparison of statistical models against ML techniques in COVID-19 data to predict UCI admission in patients.

HONORS

2025	Spanish Doctoral Research Grant 🔗	*Ministry of Universities, Spain*
2025	Galician Doctoral Research Grant	*Galician Regional Government*
2024	Master's Award for the Best Academic Access 🔗	*University of A Coruña, Santander Bank*
2024	Department Collaboration Scholarship 🔗	*Ministry of Education of Spain*
2024	Outstanding Degree Award 🔗	*Galician Regional Government*
2024	Outstanding Degree Award 🔗	*University of A Coruña*
2023	Bachelor Fellowship by the University Chair "Cátedra CICAS" 🔗	*FUAC, Corunet by Sngular*
2023	Awards for Academic Excellence in Bachelor's Degrees 2021-22 🔗	*Galician Regional Government*
2022	Awards for Academic Excellence in Bachelor's Degrees 2020-21 🔗	*Galician Regional Government*
2022	Department Collaboration Scholarship 🔗	*University of A Coruña, Santander Bank*
2019	Top Academic Records in Galicia for University Access	*Galician Regional Government*

RESEARCH

2025　Ana Ezquerro, Carlos Gómez-Rodríguez, David Vilares. *Hierarchical Bracketing Encodings Work for Dependency Graphs (to appear).*
　　　In the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP 2025).

2025 Ana Ezquerro, David Vilares, Anssi Yli-Jyrä, Carlos Gómez-Rodríguez. *Hierarchical Bracketing Encodings for Dependency Parsing as Tagging*. In the 63rd Annual Meeting of the Association for Computational Linguistics (ACL 2025).

2025 Adrián Gude, Roi Santos-Ríos, Francisco Prado-Valiño, Ana Ezquerro, Jesús Vilares. *LyS at SemEval 2025 Task 8: Zero-Shot Code Generation for Tabular QA*. In the 19th International Workshop on Semantic Evaluation (SemEval 2025) co-located with the 63rd Annual Meeting of the Association for Computational Linguistics (ACL 2025).

2025 Ana Ezquerro, David Vilares, Carlos Gómez-Rodríguez. *Better Benchmarking LLMs for Zero-Shot Dependency Parsing*. In the Joint 25th Nordic Conference on Computational Linguistics and 11th Baltic Conference on Human Language Technologies (NoDaLiDa/Baltic-HLT 2025).

2024 Ana Ezquerro, David Vilares, Carlos Gómez-Rodríguez. *Dependency Graph Parsing as Sequence Labeling*. In the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024).

2024 Ana Ezquerro, David Vilares. *LyS at SemEval 2024 Task 3. An Early Prototype for End-to-End Multimodal Emotion Linking as Graph-Based Parsing*. In the 18th International Workshop on Semantic Evaluation co-located with the 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NACL 2024).

2024 Ana Ezquerro, Carlos Gómez-Rodríguez, David Vilares. *From Partial to Strictly Incremental Constituent Parsing*. In the 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2024).

2023 Ana Ezquerro, Carlos Gómez-Rodríguez, David Vilares. *On the Challenges of Fully Incremental Neural Dependency Parsing*. In the 13th International Joint Conference on Natural Language Processing and the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (IJCNLP-AACL 2023).

2023 Ana Ezquerro, Brais Cancela, Ana López-Cheda. *On the Reliability of Machine Learning Models for Survival Analysis When Cure Is a Possibility*. In Mathematics 2023, Vol. 11, Nonparametric Statistical Methods and their Applications.

2022 Ana Ezquerro, Germán Aneiros, Manuel Oviedo. *New covariates selection method in dynamic regression models with a public implementation in R language*. In the IX Galician R Users Conference organized by MeLiSA and AMTEGA.

2022 Ana Ezquerro, Germán Aneiros, Manuel Oviedo. *Automatic covariates selection in dynamic regression models with application to COVID-19 evolution*. In The 5th XoveTIC Conference (XoveTIC 2022) organized by the Centre for ICT Research with the University of A Coruña.

Skills

Programming	Python, Java, Matlab, Git, Julia, R, SQL
Software	Git, Docker, PowerBI, Tableau, LaTeX
Languages	Spanish (native), Galician (IV), English (C1)

Courses

- Lisbon Machine Learning School 2024 (LxMLS 2024).

Volunteering

- Compensation Board Member at the Faculty in Computer Science (University of A Coruña) from 2020 to 2023.
- Active member at the Student Board of the Faculty in Computer Science (University of A Coruña) since 2021.
- Member at the Master in Artificial Intelligence Committee of University of A Coruña from 2023 to 2025.
- Member at the XII Evaluation Committee of UTC's Docentia Program from 2023 to 2025.