

NAHUEL GÓMEZ RAGUILEO

Computer Engineer — M.Sc. in Computer Science

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SUMMARY

Ph.D. student and Computer Engineer (M.Sc.) specializing in applied Artificial Intelligence research and multimodal models for healthcare, psychology, and IoT systems. Experienced in developing end-to-end machine learning pipelines, natural language processing models, and AI solutions in enterprise and clinical settings.

EDUCATION

Universidad de Chile

M.Sc. in Computer Science

B.S. in Computer Science and Engineering

Santiago, Chile

Jan 2024 – Jun 2025

Mar 2018 – Dec 2023

- **Master's Thesis** (*Highest Honors – Best Computer Science Thesis 2025*): “Natural Language Processing for the Diagnosis of Postoperative Delirium”.
- Designed and implemented an end-to-end diagnostic pipeline combining semantic analysis using Transformers from raw audio with tabular models for clinical data.

WORK EXPERIENCE

Universidad de Chile

Research Engineer

Santiago, Chile

Oct 2023 – Present

- Designed and built the real-time machine learning engine for a clinical diagnostic system, analyzing live EEG signals and tabular data.
- Developed the ML backend for a pose estimation mobile app to track rehabilitation exercises, supporting the reduction of public healthcare waiting lists.

Customer Trigger

Data / AI Engineer

Santiago, Chile

May 2023 – Jan 2026

- Trained Machine Learning and Deep Learning models for personalized messaging across retail, insurance, automotive, and healthcare sectors, increasing monthly sales by 5%.
- Analyzed large-scale datasets to evaluate record completeness and generated automated reports to support strategic decision-making.

Banchile Inversiones

Data Engineer – Treasury

Santiago, Chile

Dec 2022 – Apr 2023

- Automated key operational processes and eliminated workflow bottlenecks within the Treasury team by building and deploying bots in a Microsoft ecosystem.

RESEARCH & PROJECTS

INRIA (Agora Team)

Research Intern

Lyon, France

Jan 2025 – Apr 2025

- Analyzed network behavior in LoRaWAN architectures by processing unstructured metadata and building dynamic visualizations to detect traffic anomalies and operational patterns.

GMDS Conference

Presenter and Lead Developer

Heilbronn, Germany

Sep 2023

- Designed and presented a full-stack clinical decision support system to predict mortality in patients undergoing Code Blue procedures.
- Designed the backend infrastructure for low-latency real-time data ingestion using the international FHIR standard.

LEADERSHIP & REPRESENTATION

Computer Science Student Council

Head of Academic Affairs

Mar 2021 – Mar 2022

- Coordinated academic initiatives with the Academic Directorate, department administration, and faculty to plan courses and address student body needs.

Engineering Core Student Council

Student Representative

Mar 2019 – Mar 2020

- Led the organization of student activities during national social contingencies and the COVID-19 pandemic, coordinating directly with the School Directorate.

PUBLICATIONS

- [1] Barriere, V., Gomez, N., Hemamou, L., Callejas, S., & Ravenet, B. (2025). StandUp4AI: A New Multilingual Dataset for Humor Detection in Stand-up Comedy Videos. *Findings of the Association for Computational Linguistics: EMNLP 2025*, pp. 16951–16959.
- [2] Callejas, S., Gomez, N., Pelachaud, C., Ravenet, B., & Barriere, V. (2026). MultiLinguahah: A New Unsupervised Multilingual Acoustic Laughter Segmentation Method. *arXiv preprint arXiv:2605.06309*.