

RAFAEL ELBERG

 github.com/SugarFreeManatee  rafael.elberg@uc.cl

EDUCATION

University of Toronto

PhD in Computer Science 2026 -

Pontificia Universidad Católica de Chile

MSc in Engineering Sciences with specialization in Computer Science (Max. Distinction) 2023 - 2025

Bachelor of Engineering in Computer Science 2018 - 2025

Bachelor of Science in Engineering 2018 - 2023

SKILLS

Fluent Languages:	Spanish, English, Portuguese
Programming Languages:	Python, C, Javascript, GoLang
Software & Tools:	Pytorch, Numpy, Tensorflow, Git, Slurm

PUBLICATIONS

A Compressive-Expressive Communication Framework for Compositional Representations 2025
Rafael Elberg, Felipe del Rio, Mircea Petrache, Denis Parra, In The Thirty-ninth Annual Conference on Neural Information Processing Systems.

Long Tail Image Generation Through Feature Space Augmentation and Iterated Learning 2024
Rafael Elberg, Mircea Petrache, Denis Parra, Extended abstract at LXCv Workshop, CVPR2024.

iHealth-Chile-1 at RRG24: In-context Learning and Finetuning of a Large Multimodal Model for Radiology Report Generation 2024
Diego Campanini, Oscar Loch, Pablo Messina, Rafael Elberg, and Denis Parra In Proceedings of the 23rd Workshop on Biomedical Natural Language Processing, pages 608–613, Bangkok, Thailand. Association for Computational Linguistics.

ACADEMIC SERVICE

Reviewer, NeurIPS 2026

Volunteer, LXAI Workshop at CVPR 2024

AWARDS

Best CS MSc Thesis Award, PUC Chile 2026

Honorable mention for best research project, CENIA 2025

WORK EXPERIENCE

Lecturer Discrete Mathematics IIC1253, PUC Chile Mar 2026 - Jul 2026

TA. Professional Certificate in Generative AI and Language Models, CENIA Chile Sep 2025 - Dec 2025

Adv. TA. Deep Learning IIC3697, PUC Chile Mar 2025 - Jul 2025

Adv. TA. Advanced topics in AI IIC3692, PUC Chile Agu 2024 - Dic 2024

Lead TA. Intro. to Mathematical methods For ML MAT2320, PUC Chile Agu 2023 - Dic 2023 / Agu 2024 - Dic 2024

Internship iHealth Milenium Institute Jan 2024 - Mar 2024

Adv. TA. Data Structures and Algorithms IIC2133, PUC Chile

Agu 2022 - Dic 2022

Internship Zippedi inc.

Dic 2021 - Feb 2022

Adv. TA. Artificial Intelligence IIC2613, PUC Chile

Agu 2021 - Jul 2022

Adv. TA. Intro to Programming IIC1103, PUC Chile

Mar 2021 - Jul 2021

Adv. TA. Advanced Programming IIC2233, PUC Chile

Mar 2020 - Dic 2020