

Martin Carrasco

Vrije Universiteit Amsterdam

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[Martin](#) 

[martin-carrasco](#) 

MS student of Artificial Intelligence with industry and research experience. Passionate and driven by current problems in AI and Computer Science. Interested in research related to geometrically grounded deep learning (TDL, GDL), machine learning theory and applications in computational linguistics.

EXPERIENCE

Vrije Universiteit Amsterdam

Amsterdam, Netherlands

Research Assistant

On-site

Oct 2023 - Jun 2023

- Research in computational methods for extractive text summarisation VU Amsterdam under the supervision of dr Fokkens and dr Sommerauer

On-site

Jul 2024 - Present

Research Intern

- Intersection of computational linguistic and computational geometry at VU Amsterdam under the supervision of dr Fokkens and dr Sommerauer

Airnguru

Santiago, Chile

Backend Developer

Remote

Jun 2022 - Jul 2023

- Optimized a big data-related process for managing airline fares and reduced the execution time by 10%
- Developed a metric extraction system from CloudWatch to enable metrics to be stored and visualized through BigQuery
- Optimized the calculation of airplane routes and reduced execution time by 40%

Universidad de Ingenieria y Tecnologia

Lima, Peru

On-site

Mar 2019 - Dec 2023

Research Assistant

- Conducting research in relation to computer architecture, photonics and operating systems in the Computing Systems Research Group under supervision of dr Jorge Gonzalez

Universidad de Ingenieria y Tecnologia

Lima, Peru

In Person

Mar 2019 - Dec 2020

Teaching Assistant - Operating Systems

- Assessed student assignments to check quality and completeness before submission for grading
- Assisted and mentored students in groups of up to 20 by reviewing lesson teachings and going over previous exams
- Recorded grades for coursework and tests in an online reporting system
- Assisted lead teachers with lesson plan creation and materials development

PUBLICATIONS AND POSTERS

- M. G. Palma, J. Gonzalez, **M. Carrasco**, R. Rubio-Noriega, K. Bergman and R. Azevedo, "Inter-Node Message Passing Through Optical Reconfigurable Memory Channel," in IEEE Access, vol. 12, pp. 83057-83071, 2024, doi: 10.1109/ACCESS.2024.3412878,
- **M. Carrasco**, A. Berentzen and A. Garcia "Applications of TopoX to Topological Deep Learning," in Geometric-Grounded Representation Learning and Generative Modelling @ ICML 2024, url: <https://gram-blogposts.github.io/blog/2024/smpn/>,

EDUCATION

University of Amsterdam

Amsterdam, Netherlands

MS student in Artificial Intelligence

- Relevant courses: Deep Learning 2

Vrije Universiteit Amsterdam

Amsterdam, Netherlands

MS student in Artificial Intelligence

- Relevant courses: Natural Language Processing, Deep Learning

Universidad de Ingenieria y Tecnologia

Lima, Peru

BS in Computer Science

- Relevant courses: Competitive programming , Advanced Data Structures, Analysis and Design of Algorithms

AWARDS

Winner in the TDL Challenge at ICML 2024 - Great Contributor @ ICML 2024

Viena, Austria

July 2024

Awarded for being a great contributor to the challenge with 4 submissions

Grant to attend ICML 2024 from the University of Amsterdam

Amsterdam, Netherlands

July 2024

500 EUR grant to attend the International Conference on Machine Learning 2024 to present a poster

Top 100 recognition @ IEEE-Xtreme

Lima, Peru

Oct 2019

Placed on place 49 of over thousands of teams in a 24-hour competitive programming competition

VOLUNTEERING AND SOCIETIES

Open Day @ Universidad de Ingenieria y Tecnologia	Lima, Peru
Assitant: Supporting workshops in career fair for Computer Science	Mar 2019
Presenter: Presentation of an Arts and Technology project related to Shipibo-Conibo imagery “Convirtiendo Imágenes a Sonidos”	Mar 2020
IEEE - Computer Society @ Universidad de Ingenieria y Tecnologia	Lima, Peru
Treasurer: Founding member. Gave workshops on data structures used by git, statistics and arranged talks / paper reviews	2019
Competitive Programming Club (CPC) @ Universidad de Ingenieria y Tecnologia	Lima, Peru
Member: Top 100 in IEEE-Xtreme 2019, competed in regional competitions and trained thoroughly	2019-2021

TECHNICAL SKILLS

- **Python, Pandas, Scipy, Seaborn, Tensorflow, PyTorch, Django, FastAPI, Flask, SQL, C++/C, GIT, Latex, MongoDB, AWS, GCP, DataWarehousing, Docker, Kubernetes, MPI/OpenMPI Advanced**

LANGUAGES

- **Spanish** Native speaker
- **English** C2