ALEJANDRO GARCÍA CASTELLANOS

EXPERIENCE

Ph.D. Candidate

Feb. 2024 – Current

AMLab (Amsterdam Machine Learning Lab), UvA

Amsterdam, Netherlands

- Under the supervision of Erik Bekkers (UvA) and co-supervision of Daniël Pelt (ULEI)
- Generative models and active learning for shapes and segmentation

Research Engineer

Mar. 2023 - Feb- 2024

RPL (Division of Robotics, Perception and Learning), KTH

Stockholm, Sweden

- Under the supervision of Danica Kragic
- Equivariant representation learning in DL
- Metric learning in generative models
- Steiner tree problem in Hyperbolic geometry

Trainee Internship

Sep. 2020 – Jan. 2021

MEDAL laboratory, CTB (Center of Biomedical Technology)

Madrid, Spain

- Application of information recognition algorithms in clinical notes
- Development of new techniques for the recognition of metrics, doses and numbers
- Fine-tuning a BERT model in breast and lung cancer's clinical notes

EDUCATIONAL BACKGROUND

MSc in Machine Learning

Sep. 2021 – Oct. 2023

KTH Royal Institute of Technology

Stockholm, Sweden

- Average grade: 4.00 GPA
- Thesis in Topological regularization and relative latent representations

B.S. in Mathematics and Computing

Sep. 2017 – Jul. 2021

Universidad Politécnica de Madrid

Madrid, Spain

- Average grade: 9.78/10.0 (4.00 GPA)
- Best academic record of amongst all programs at the ETSIINF (Higher Technical School of Computer Engineers) of the promotion 2020/2021
- Honours granted by UPM in 29 courses
- Three Scholarships for Academic Excellence granted by the Community of Madrid
- Thesis in Robustness of Persistent Homology: the Stability Theorem

COMPUTER AND PROGRAMMING KNOWLEDGE

Programming: Python, Java, C, R, SQL, MATLAB, Maple, Prolog, Bash

ML: Pytorch, Pytorch Lightning, Tensorflow, (a bit of) JAX

Computer: LaTeX, Git, Microsoft Office, Keynote, Pages (Apple), Adobe Photoshop, Adobe Lightroom

LANGUAGES

English: Advanced level (C1), CAE by Cambridge English

Spanish: Native language

German: Low Beginner Level

OTHER PERSONAL ASPECTS

Driving License: B Own vehicle (in Spain)

I am passionate about learning new applications of geometric, topological, and algebraic methods to analyze or improve the methods of machine learning

Stockholm, February 6, 2024

Alejandro García Castellanos