ALEJANDRO GARCÍA CASTELLANOS



Nationality: Spanish

Date of Birth: July 22^{nd} , 1999

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EXPERIENCE

Research Engineer

Mar. 2023 – Current

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

Stockholm, Spain

- 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

Stockholm, Sweden

KTH Royal Institute of Technology

• 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)
- \bullet Best academic record of the ETSIINF (Higher Technical School of Computer Engineers) of the promotion 2020/2021
- Matriculation with Honors in 29 courses
- Three Scholarships for Academic Excellence granted by the Community of Madrid
- Thesis in Robustness of Persistent Homology: the Stability Theorem

Secondary Education and Baccalaureate

Sep. 2011 – Jul. 2017

Colegios Ramón y Cajal

Madrid, Spain

II : ', 11', 1 /D

• University addition mark (EvAU): 13.03/14.0

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 Pho-

toshop, 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, December 2, 2023

Alejandro García Castellanos