Rodrigo González Linares

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EDUCATION

MSc Artificial Intelligence

University of Vigo, Spain | 2022 – ongoing (expected – Feb 2024)

MSc Nanobiology

Delft University of Technology & Erasmus University Rotterdam, Netherlands | 2018 – 2020

BSc Biotechnology Engineering – graduated with honors as top graduate

Monterrey Institute of Technology and Higher Education, Mexico | 2015 – 2018

RELEVANT SKILLS

Programming languages: Python, Julia, Wolfram (Mathematica), MATLAB

Frameworks and libraries: PyTorch, Keras/Tensorflow, Scikit-learn, OpenCV, Hugging Face (Transformers/Diffusers), NumPy, Flux (ML for Julia), River (online ML), Flower (federated ML), Pandas, Matplotlib

Languages: English (fully proficient, TOEFL IBT 102/120 in 2017), Spanish (native)

EXPERIENCE

Internship

CRIDA A.I.E., Spain | Sep 2023 – ongoing

- Creation of a virtual vertiport environment in Unity
- Development of a surveillance system capable of incorporating different versions of YOLO for detection/classification/segmentation, k-means and SAM for segmentation, and MiDaS for monocular depth estimation
- Increase of depth estimation precision for flying objects via MiDaS fine-tuning

Research project

School of Biological Sciences, University of Southampton, UK | Sep 2020 – Sep 2021

- Design and development of a novel nucleic acid amplification method based on rolling circle replication
- In silico search and characterization of CRISPR-associated transposons
- Participation in the development of a CRISPR-based diagnostic method for the detection of nucleic acids with a naked-eye readout

Master end project

Kavli Institute of Nanoscience, Delft University of Technology, Netherlands | Sep 2019 – Jul 2020

• Investigation on a CRISPR-associated transposon regarding genome engineering

Research internship

Kavli Institute of Nanoscience, Delft University of Technology, Netherlands | Feb – Jun 2019

• Investigation on the dynamics of Cas13 using single-molecule FRET and TIRF microscopy

PUBLICATION

Spoelstra, W., Jacques, J., Gonzalez-Linares, R., Nobrega, F., Haagsma, A., Dogterom, M., Meijer, D., Idema, T., Brouns, S. and Reese, L., 2021. CRISPR-based DNA and RNA detection with liquid-liquid phase separation. Biophysical Journal, 120(7), pp.1198-1209.