

# Pablo Ruiz Ponce

ARTIFICIAL INTELLIGENCE RESEARCHER

University of Alicante, Alicante, Spain

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## Education



### University of Alicante

PHD STUDENT

PhD Student in Artificial Intelligence with National Grant (FPU)

Alicante, Spain

2023–Now



### Polytechnic University of Catalonia

INTERUNIVERSITY M.SC. IN ARTIFICIAL INTELLIGENCE (UPC/UB/URV)

Average Mark: 9.2/10

Barcelona, Spain

2022–Now



### Czech Technical University

ERASMUS

Average Mark: 10/10

Prague, Czech Republic

2021



### University of Alicante

B.Sc. COMPUTER SCIENCE

Average Mark: 9.4/10 · Subjects Passed with Honors: 18 · High Academic Performance Group

Alicante, Spain

2018–2022

## Experience



### University of Alicante

RESEARCH ASSISTANT

Deep Learning & Computer Vision Research Assistant in the TED project CHAN-TWIN

Alicante, Spain

May 2023–October 2023

## Awards and Grants

- |      |  |                 |
|------|--|-----------------|
| 2023 | <b>Grant for University Teacher Training (PhD National Grant)</b> , Spanish Ministry of Universities | Spain           |
| 2023 | <b>VI Extraordinary End-of-Degree Award</b> , General Captaincy of Valencia                          | Valencia, Spain |
| 2022 | <b>Extraordinary Award</b> , University of Alicante  | Alicante, Spain |
| 2021 | <b>Collaboration Fellowship</b> , Spanish Ministry of Education                                      | Spain           |

## Skills

- Programming** Python · C++ · JavaScript · Java · Swift
- Tools** TensorFlow · PyTorch · JAX · Keras · Scikit-learn · NumPy · Matplotlib · Pandas
- Others** git ·  $\text{\LaTeX}$  · Docker
- Languages** English (Bilingual proficiency), Spanish (Native)

## Publications

### Journal Publications

- P. Ruiz-Ponce, D. Ortiz-Perez, J. Garcia-Rodriguez, and B. Kiefer. Poseidon: A data augmentation tool for small object detection datasets in maritime environments. *Sensors*, 23(7), 2023
- D. Ortiz-Perez, P. Ruiz-Ponce, D. Tomás, J. Garcia-Rodriguez, M. F. Vizcaya-Moreno, and M. Leo. A deep learning-based multimodal architecture to predict signs of dementia. *Neurocomputing*, 548:126413, 2023
- P. Ruiz Ponce. Small vessel detection in seaborne environments using deep learning techniques, 2022-06-30

### Congress Publications

- P. Ruiz-Ponce, G. Barquero, C. Palmero, S. Escalera, and J. García-Rodríguez. in2in: Leveraging individual information to generate human interactions. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, pages 1941–1951, June 2024
- P. Ruiz-Ponce, D. Ortiz-Perez, and J. Garcia-Rodriguez. Small vessel detection in changing seaborne environments using anchor-free detectors on aerial images. In *17th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2022)*, pages 280–288, Cham, 2023. Springer Nature Switzerland