

VALENTINOS PARIZA

@ valentinos.pariza@utn.de

Nuremberg, Germany

in linkedin.com/in/valentinos-pariza/

https://github.com/vpariza

ABOUT

PhD researcher and AI enthusiast specializing in Self-Supervised Learning for vision, passionate about uncovering the potential and limitations of Deep Learning. Driven by curiosity and innovation, I aim to explore, learn, and shape the future of AI with every discovery.

EXPERIENCE

Research Intern

TNO

Feb 2024 - Jul 2024

Amsterdam, Netherlands

- Improved DINOv2 on a multitude of benchmarks, especially in in-context learning by 6% as part of my Master Thesis under Dr. Yuki M. Asano and Dr. Gertjan Burghouts.

Data Science Intern

South Pole

Jul 2023 - Aug 2023

Amsterdam, Netherlands

- Diagnosed issues in the company's Product to CO2 emissions matching algorithm by analyzing its past matchings' logs/results.
- Generated a ground truth dataset for evaluation using web scraping.
- Improved Product Description to Category matching algorithm's top-1 accuracy by 25.2% using a customized NLP Deep Learning Model.
- Orchestrated the deployment of DL models to production using Kubernetes.

Research Intern

CYENS Centre of Excellence

Jun 2022 - July 2022

Nicosia, Cyprus

- Developed a Python library using JAX Google for Quality Diversity Optimization Algorithms, elevating the efficiency of QD research.

Co-Founder & Backend Developer

Fooderloo

Oct 2019 - Mar 2022

Nicosia, Cyprus

- Developed and implemented a business idea against Food Waste in Cyprus.

Software Development Engineer Intern

Amazon Data Services Ireland

Aug 2020 - Jul 2021

Dublin, Ireland

- Developed and deployed a time-saving report generation service, leveraging real-time data from Amazon's services, that saves hours of manual work.
- Improved a Java library for programmatically accessing internal data from the AWS CloudWatch, which improved accessibility.
- Led two campaigns to enhance Code Logging Practices across Amazon, resulting in annual cost savings of thousands of dollars.
- Optimized one of Amazon's largest real-time log analysis services, improving accessibility and efficiency.

Research Intern

CYENS Centre of Excellence

Jun 2020 - Aug 2020

Nicosia, Cyprus

- Engineered an end-to-end system for Speech Emotion Recognition in Dyadic Conversations, building upon state-of-the-art methodologies.

PUBLICATIONS

Valentinos Pariza et al. (2024). *NeCo: Improving DINOv2's spatial representations in 19 GPU hours with Patch Neighbor Consistency*. arXiv: 2408.11054 [cs.CV]. URL: <https://arxiv.org/abs/2408.11054>

EDUCATION

PhD in Deep Learning for Vision

University of Technology Nuremberg (UTN)

Dec 2024 — Present Nuremberg, Germany

- Focused on improving Vision Models by addressing their limitations through self-supervised learning and synthetic data.

MS in Artificial Intelligence

University of Amsterdam (UvA)

Sep 2022 — 2024 Amsterdam, Netherlands

- Graduated with **cum laude** and GPA: 9.03/10.

BSc in Computer Science

University of Cyprus (UCY)

Sep 2016 - 2022 Nicosia, Cyprus

- GPA: 9.36/10 with focus in A.I.
- Graduated 2nd in the CS Department class.

TECHNICAL SKILLS

Python

Pytorch & Pytorch Lightning

Tensorflow & Keras

Angular

ReactJS/React Native

Javascript & CSS & Html

SQL (T-SQL & MySQL)

Java

C & C++

Git

Kubernetes

AWS



AWARDS



Best "Ready for Production Solution"

Best Deployed algorithm developed during working at South Pole as part of the Summer of AI event.



Best & Most Innovative Solution 2020

Awarded for my business idea Fooderloo in the Cyprus Digital Championship for Students.

STRENGTHS

Hard-working

Critical Thinking

Problem Solving

Motivator & Leader

Effective Communicator

Teamwork

LANGUAGES

English

Greek

Russian

