Adriano Cardace

COMPUTER VISION/DEEP LEARNING PhD STUDENT

Bologna, Italy

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Education

PhD Student   *Italy, BO*

UNIVERSITY OF BOLOGNA   *Nov 2020 - Current*

M.S. in Computer Engineering, 110L/110 - Magna cum Laude   *Italy, BO*

UNIVERSITY OF BOLOGNA   *Sep 2017 - Mar 2020*
- **Eindhoven University of Technology**, Eindhoven, the Netherlands — *(Erasmus) Fall semester 2018/2019*

B.S. in Computer Science, 110L/110 - Magna cum Laude   *Italy, BO*

UNIVERSITY OF BOLOGNA   *Sep 2014 - Oct 2017*
- **University of Bergen**, Bergen, Norway — *(Erasmus) Fall semester 2016/2017*

High School, computer science, 82/100   *Italy, RE*

I.I.S. BLAISE PASCAL   *Sep 2008 - Jul 2013*

Experience

PhD Student   *Bologna, BO*

CVLAB, UNIVERSITY OF BOLOGNA   *Nov 2020 - Current*
- I am a second-year PhD student. My research is mainly about Deep Learning for Computer Vision. In particular, I work on Unsupervised Domain Adaptation, Semantic Segmentation, and 3D scene representation. I am interested in everything involving learning with weak or no supervision.

Research Fellow   *Bologna, BO*

CVLAB, UNIVERSITY OF BOLOGNA   *May 2020 - Nov 2020*
- The main focus of this fellowship has been Transfer Leaning for vision tasks such as Semantic Segmentation and depth estimation.

Deep Learning Engineer   *Bologna, BO*

INJENIA   *Sep 2019 - Dec 2019*
- I worked at Injenia as a Deep Learning engineer. Here, I developed several architectures using Tensorflow 2.0 both in the field of Computer Vision and Natural Language Processing. Leveraging on the Google Cloud Platform, I had the opportunity to familiarize with advanced tools useful for the entire pipeline of a real Machine Learning project.

IT infrastructure support   *Reggio Emilia, RE*

CELLULARLINE   *Sep 2013 - Mar 2014*
- My main role was to support the network infrastructure system. I also developed and administrated an internal database.

Teaching Activities

Teaching Assistant

UNIVERSITY OF BOLOGNA   *2022*

I currently am the Teaching Assistant of the course 'Machine Learning for Computer Vision' for the Master's degree in Artificial Intelligence at the University of Bologna.

Certifications and Awards

International Computer Vision Summer School

UNIVERSITY OF CAMBRIDGE, UNIVERSITY OF CATANIA   *2022*

Winner of "Study Grants for deserving students 2018/2019"

UNIVERSITY OF BOLOGNA   *2019*

Google Cloud Platform Big Data and Machine Learning Fundamentals

COURSERA   *2019*

English level C1 (Listening: 7.5, Reading: 8.0, Writing: 6.5, Speaking: 7.0)

IELTS   *2017*

Publications

Self-Distillation for Unsupervised 3D Domain Adaptation

A, Cardace, R. Spezialetti, P. Z. Ramirez, S. Salti, L. Di Stefano; *Winter Conference on Applications of Computer Vision (WACV), 2023.*

Plugging Self-Supervised Monocular Depth into Unsupervised Domain Adaptation for Semantic Segmentation

A, Cardace, L. De Luigi, P. Z. Ramirez, S. Salti, L. Di Stefano; *Winter Conference on Applications of Computer Vision (WACV), 2022.*

Shallow Features Guide Unsupervised Domain Adaptation for Semantic Segmentation at Class Boundaries

A, Cardace, P. Z. Ramirez, S. Salti, L. Di Stefano; *Winter Conference on Applications of Computer Vision (WACV), 2022.*

RefRec: Pseudo-labels Refinement via Shape Reconstruction for Unsupervised 3D Domain Adaptation

A, Cardace, R. Spezialetti, P. Z. Ramirez, S. Salti, L. Di Stefano; *International Conference on 3D Vision (3DV), 2021, Oral.*

Skills

Expertise	Deep Learning, Computer Vision, Machine Learning, Natural Language Processing, Parallel Programming
Languages	Python, C, C++, Swift, Go, Unix shell scripting, SQL, Javascript
Libraries	Pytorch, Tensorflow, Keras, Numpy, scikit-learn, OpenCV, Dataflow, BigQuery, openMP
Cloud infrastructures	GCP, AWS, MLflow
Productivity Tools	Git, LATEX
Operating systems	Linux

Interests

Sports (Football, F1) and Fitness. In particular, I love running, CrossFit, and Yoga. I am interested in nutrition and health in general. I love reading books and listening to music. Fascinated by all types of science.