

Alessio Tonioni

PH.D. STUDENT IN COMPUTER SCIENCE AND ENGINEERING AT UNIVERSITY OF BOLOGNA

Viale risorgimento, 2 Bologna

☎ (+39) 339-1058414 | ✉ alessio.tonioni1@alice.it | 🌐 <https://github.com/AlessioTonioni> | 📞 tonio23991 | 📄 alessio-tonioni-16261668

Working Experience

Unibo(University of Bologna)

Bologna, Italy

RESEARCH FELLOW AT COMPUTER VISION LAB.

Jan. 2019 - PRESENT

- Winner of 1 year post-doc research position in computer vision on few shot object detection and recognition.
- **Supervisor:** Luigi Di Stefano

Education

Unibo(University of Bologna)

Bologna, Italy

PH.D. STUDENT IN COMPUTER SCIENCE AND ENGINEERING

Nov. 2015 - Nov. 2018

- Winner of a scholarship sponsored by Centro Studi S.R.L. for a three years research project on the use of computer vision techniques in retail and wholesale stores.
- **Supervisor:** Luigi Di Stefano

University of Oxford

Oxford, England

VISITING STUDENT

May. 2018 - Nov. 2018

- Six months internship in Torr Vision Group, working on projects related to autonomous driving. My visit was partially financed by FiveAI.
- **Supervisor:** Philip Torr

Unibo(University of Bologna)

Bologna, Italy

MASTER DEGREE IN COMPUTER ENGINEERING

2013 - 2015

- **Final Rank:** 110/110 with honors
- **Master Thesis:** Automatic learning of multi scale 3D keypoint detector/Tecniche di apprendimento automatico per l'individuazione di punti salienti a diverse scale in dati 3D.
- **Supervisor:** Luigi Di Stefano.
- **Co-supervisors:** Federico Tombari and Samuele Salti.

Unibo(University of Bologna)

Bologna, Italy

BACHELOR DEGREE IN COMPUTER ENGINEERING

2010 - 2013

- **Final Rank:** 110/110 with honors
- **Master Thesis:** Study and implementation of algorithms for the 3D reconstruction of rooms and the automatic navigation of autonomous drone/Studio e implementazione di algoritmi per la ricostruzione 3d dell'ambiente e la navigazione di velivoli autonomi - <http://youtu.be/V1BQLbmc03g>
- **Supervisor:** Lorenzo Marconi.
- **Co-supervisors:** Roberto Naldi and Michele Furci.

ADDITIONAL COURSES AND SCHOOLS

- **International Computer Vision Summer School**, July 2016, University of Catania
- **Regularization techniques for machine learning (Summer School)**, June 2016, University of Genova, Dibris, Istituto Italiano di Tecnologia
- **Machine Learning Crash Course (Summer School)**, June 2015, University of Genova, Dibris, Istituto Italiano di Tecnologia

Teaching Experience

Specialvideo and Fondazione Aldini Valeriani

Bologna, Italy

CORPORATE TRAINER ON MACHINE LEARNING

Feb. 2018 - PRESENT

- Teacher of a 16 hours corporate training course in machine/deep learning.

Publications

During my Ph.D. I have mainly worked on the automatic detection of products on grocery store shelves and on the estimation of the 3D structure of a scene from RGB images. Those and others projects resulted in a series of scientific publications I have co-authored. An update and comprehensive list of my published articles is available at: <https://bit.ly/2pLYvJ3>.

Skills

Programming skills

[HTTPS://GITHUB.COM/ALESSIOTONIONI](https://github.com/AlessioTonioni)

- **Main programming languages:** Python, C++, C#, C, Java.
- **Main machine learning frameworks used:** TensorFlow and Caffe on linux environment.
- **Other frameworks and libraries:** OpenCV, PCL, Ros.
- **Side Projects:** I developed during 2013/14 **"Blam!"**, a user powered comic strip aggregator for windows phone.

Language

- **Italian:** mother tongue.
- **English:** C1.