

# Claudio Coppola

PhD in Cognitive Robotics, Machine Learning Expert

London, UK

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Cognitive Robotics researcher focused on AI. Experienced in Machine Learning for Robotics and Computer Vision. Aiming to create a positive impact on the world using Artificial Intelligence.

## Experience

### Postdoctoral Researcher

Queen Mary University of London

May 2019 – Current

London, UK

- Coordinating the work of PhD/MSc students for the EPSRC MAN<sup>3</sup> Project regarding Tactile Perception and Grasp Exploration.
- Submitted articles to international top ranked conferences.
- Conducting research on learning by demonstration for robot manipulation by building a teleoperation platform and using Bayesian Optimization and ML.

### LD11 Cohort Member

Entrepreneur First

Oct 2018 – Jan 2019

London, UK

Took the role of CTO cooperating at the ideation of the start-up, public speaking, customer and product development and market analysis.

### Lead Data Scientist

Buzzoole

May 2018 – Oct 2018

Napoli, Italy

Led the data science team, worked on several Machine Learning Projects central to raise \$8.9M funding for the company to improve the product:

- Trained a CNN Model for object recognition on 20K+ social media images achieving over 80% accuracy.
- Trained an RNN Model to translate text from French and Spanish to English.
- Fake followers detection from influencer metrics analysis.

### Research Associate

University of Lincoln

May 2017 – May 2018

Lincoln, UK

- Developed state-of-the-art Human Activity Recognition and Re-identification models used in the EU H2020 research projects ENRICHME and FLOBOT.
- Published in top ranked AI and Robotics Conferences and Journals.
- Teaching Assistant for courses of Artificial Intelligence and Robotics.

### Business Intelligence Consultant

KPMG

Jan 2014 – Jul 2014

Rome, Italy

- Automated daily BI maintenance tasks with a speed-up above 90% and developed SQL queries to generate BI reports.

## Technical Skills

- **Machine Learning & AI** - Deep Learning, SVM, Bayesian Optimization, Ensembles, GMM, HMM, K-Means, PCA, Kalman/Particle Filters.
- **Frameworks** - ROS, Pytorch, Scikit-learn, Keras, Tensorflow, React, Kinect SDK2, OpenCV, Git.
- **Methodological** - Computer Vision, Signal Processing, Control Theory, Software Engineering, Performance Analysis, Localization, Planning, Optimization, Scientific writing.

## Invited Talks

"Human Activity Recognition and Monitoring" Symposium of the British Machine Vision Association 2017 (BMVA), London, UK.

## Education

### PhD in Robotics

University of Lincoln

Jul 2014 – Aug 2018

Lincoln, UK

- Built Human Social Activity and interaction recognition systems based on RGB-D data.
- Associated with the EU H2020 Projects ENRICHME and STRANDS
- Published at IROS, ECAI, RO-MAN, etc.
- AI: SVM, GMM, Ensemble, Bayesian Nets, Random Forest, Deep Learning, Clustering.

### MSc cum Laude in Computer Science Engineering

University Federico II of Napoli

Oct 2011 – Dec 2013

Napoli, IT

- Top 5% Student
- Focus: Computer Vision, Machine Learning, Signal Processing, Statistics, Optimisation, Computer Vision.
- Thesis: Iris Liveness detection for authentication systems based on Iris Recognition

### BSc in Computer Science Engineering

University Federico II of Napoli

Oct 2011 – Dec 2013

Napoli, IT

- Top 5% Student
- Thesis: Algorithm and systems for voice recognition.
- Focus: Mathematics, Linear Algebra, Database, Software Engineering, Programming: Control.

## Awards

2016 Research Travel Award	Santander
2016 Research Travel Awards	EURAI
2020 Hult regionals winner	Hult F.
2020 CORSMAL challenge winner	QMUL
2022 PD Enrichment Awards	Turing Inst.
2022 AI-Net PostDoc Awards	DAAD

## Certifications

**Machine Learning** - Stanford University on Coursera, Prof. Andrew Ng

**Deep Learning Specialization** [deeplearning.ai](https://www.deeplearning.ai) on Coursera, Prof. Andrew Ng.

**BMVA Computer Vision Summer School 2015** Swansea University.

## Programming Skills

**Proficient:** Python, Matlab.

**Familiar with:** C, C++, C#, Java, Javascript.