

# Claudio Coppola, Ph.D.

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A Ph.D. in robotic vision focused on human activity recognition for assistive robots. Studied different type of machine learning and pattern recognition algorithms and RGB-D sensors during this experience. During his Computer Engineering M.Sc. and B.Sc. developed his knowledge in math, software engineering, Computer Networks, Electronics, Control and Artificial Intelligence. Looking to be immersed in cutting-edge machine learning and robotics research.

## Education

- 2014 - 2018 **PhD in Robotic vision, University of Lincoln, UK**  
Thesis: *“Social Activity Recognition for Service Robots on RGB-D Video Sequences”*. Research on Human Social Activity recognition and interaction detection with RGB-D data, associated with the EU H2020 Project ENRICHME. The research has produced articles presented top level conferences and journals.
- May 2015 **BMVA Summer School on Computer Vision, University of Swansea, UK**  
British Machine Vision Association runs an annual Computer Vision Summer School aimed at PhD students covering major topics in the field.  
Main subjects: Computer Vision, Machine Learning, Optimization.
- 2011 - 2013 **M.Sc. Computer Engineering, Università Federico II, Italy**  
Thesis: *“Iris Liveness detection for authentication systems based on Iris Recognition”*.  
Score: 110/110 cum laude  
Main modules: Artificial Intelligence; Distributed algorithms and Systems; Telematic Applications; Algorithms and Data Structures, Operative Research; Discrete Mathematics, Hardware design.
- 2008 - 2011 **B.Sc. Computer Engineering, Università Federico II, Italy**  
Title of the Thesis: *“Algorithms and Systems for voice recognition”*.  
Score: 109/110 Main subjects: Calculus; Physics; Databases; Software Engineering; Programming; Digital Transmission; Digital and Analogical Electronics; Control Systems.

## Experience

- Oct 2018 – Jan 2019 **LD11 Cohort Member, Entrepreneur First**  
Entrepreneur First funds selected individuals and help build co-founding teams, develop ideas, and accelerate through fund-raising from investors. In the teams, I assumed the role of CTO cooperating at the ideation of the start-up, public speaking, design of the product, customer development and market analysis.
- May – Oct 2018 **Data Scientist/AI Engineer, Buzzoole**  
Member of the R&D Team with responsibility development and deploy of data science and machine learning algorithms to support the operations and product and reporting team results to the company CTO. The main tasks are the following:
- Develop an object recognition approach, able to extend the set of classes with low effort using social media images.
  - Train an algorithm for translating text extracted from social media.
  - Analyse influencer metrics to extract the percentage of fake followers.

Technologies: Tensorflow, Pytorch, pandas, Flask, Docker.

## Experience (continued)

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- Jan 2017 – Jan 2018     **Research Associate, University of Lincoln, UK**  
Research on Human Social Activity Recognition and re-identification associated with the EU H2020 Projects ENRICHME and FLOBOT.  
Technologies: libsvm, tensorflow, Matlab, openCV, ROS, Linux, Bash.
- Jan - Mar 2016     **Visiting Researcher, University of Coimbra, Portugal**  
Research on Human Social Activity Recognition funded by Santander's International Exchange Bursary.  
Technologies: libsvm, Matlab, ROS, Linux, Bash, Kinect.
- Jan – Jul 2014     **Business Intelligence Consultant, KPMG, Rome, Italy**  
Member of the IT consultancy team reporting results daily to managers and partners.
- Daily Maintenance of a Business intelligence reporting system.
  - Debugging and testing of queries generating reports from the data-warehouse.
  - Development of queries for extracting information from the customer database to the data-warehouse.
- Technologies: SQL, Oracle, PostgreSQL, GreenPlum, Cognos, Visual Basic Script, Bash.

## Teaching

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- 2015 – 2017     **Teaching Assistant, University of Lincoln, UK**  
Teaching assistant for the following subjects: Operative Systems, Artificial Intelligence, Mobile Robotics.  
Technologies: openCV, ROS, Linux, Bash, PDDL, Prolog.
- 2015 – 2016     **Volunteer Teacher, University of Lincoln Student Union, UK**  
Teacher and founder of the Italian language and culture course. It was created in the context of the International Student Group of the University to create a community of international students and to teach each other's mother language.

## Skills

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- Machine Learning     Neural Networks, SVM, Bayesian Reasoning, Ensembles, GMM, HMM, Clustering.
- Languages     Strong reading, writing and speaking competencies for Italian and English.
- Coding     Python, Matlab, Java, C/C++ , SQL ,Prolog, PDDL, Bash, VHDL, Latex.
- Databases     MySQL, PostgreSQL, Greenplum, Oracle.
- Frameworks     ROS, Jupyter, Scikit-learn, Keras, pandas, Tensorflow, Pytorch, libsvm, Kinect SDK2, OpenCV, Flask, Android SDK, Greenplum, Cognos.
- Methodological     Software Engineering, Performance Analysis and Benchmarking, Control Theory, Image Processing, Signal Processing, Numerical Algorithm design.
- Creative     Photography, Photo/Video Editing, Photoshop, Lightroom.
- Soft Skills     Public speaking, reporting, publishing.
- Academic.     Academic research, teaching, publishing.

## Awards and Achievements

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### Awards and Achievements

- Feb – Mar 2016      **International Exchange Bursary, Santander**  
Travel bursary for collaboration with the University of Coimbra on a social activity recognition project.
- Aug 2016            **Travel Awards, EURAI**  
Travel bursary to attend the ECAI 2016 Conference in Den Haag.

## Research Publications

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### Journal Articles

- 1    Coppola, C., Cosar, S., Faria, D., & Bellotto, N. (2017). Social activity recognition on continuous rgb-d video sequences. (*Accepted pending revisions*) *International Journal of Social Robotics*.

### Conference Proceedings

- 1    Coppola, C., Cosar, S., Faria, D., & Bellotto, N. (2018). Automatic detection of human interactions from rgb-d data for social activity classification. IEEE.
- 2    Cosar, S., Coppola, C., & Bellotto, N. (2017). Volume-based human re-identification with RGB-D cameras. In *Proceedings of (VISIGRAPP 2017) visapp, porto, portugal 2017*. (pp. 389–397).
- 3    Fernandez-Carmona, M., Cosar, S., Coppola, C., & Bellotto, N. (2017). Entropy-based abnormal activity detection fusing rgb-d and domotic sensors. In *Multisensor fusion and integration for intelligent systems (mfi), 2017 ieee international conference on* (pp. 42–48). IEEE.
- 4    Coppola, C., Faria, D. R., Nunes, U., & Bellotto, N. (2016). Social activity recognition based on probabilistic merging of skeleton features with proximity priors from rgb-d data. In *Intelligent robots and systems (iros), 2016 ieee/rsj international conference on* (pp. 5055–5061). IEEE.
- 5    Coppola, C., Krajnik, T., Duckett, T., & Bellotto, N. (2016). Learning temporal context for activity recognition. In *European conference on artificial intelligence (ecai2016)*.
- 6    Coppola, C., Mozos, O. M., Bellotto, N. et al. (2015). Applying a 3d qualitative trajectory calculus to human action recognition using depth cameras. In *Ieee/rsj iros workshop on assistance and service robotics in a human environment*.

## References

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