

## PERSONAL INFORMATION

## Mirco Planamente

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Gender Male | Date of birth 6 October 1993

Nationality Italian



## PUBLICATIONS

- 05/2023 Julian Neubert, Mirco Planamente, Chiara Plizzari, Barbara Caputo  
"LCMV: Lightweight Classification Module for Video Domain Adaptation"  
In Image Analysis and Processing International Conference ([ICIAP23](#))
- 05/2023 Simone Alberto Peirone, Mirco Planamente, Barbara Caputo, Giuseppe Averta  
"Test Time Adaptation for Egocentric Vision"  
In Convegno Nazionale CINI sull'Intelligenza Artificiale ([Ital-IA Workshops](#))
- 01/2023 Gabriele Goletto\*, Mirco Planamente\*, Barbara Caputo, Giuseppe Averta  
"Bringing Online Egocentric Action Recognition Into the Wild"  
IEEE Robotics and Automation Letters. (RA-L),  
IEEE/RSJ International Conference on Intelligent Robots and Systems ([IROS23](#)).
- 09/2022 Mirco Planamente, Gabriele Goletto, Gabriele Trivigno, Giuseppe Averta, Barbara Caputo  
"Toward human-robot cooperation: unsupervised domain adaptation for egocentric action recognition"  
15th International Workshop on Human-Friendly Robotics ([HFR 2022](#)), **Among the finalists for the best paper award.**
- 06/2022 Mirco Planamente, Gabriele Goletto, Gabriele Trivigno, Giuseppe Averta, Barbara Caputo  
"PoliTO-IIT-CINI Submission to the EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge for Action Recognition"  
The Tenth International Workshop on Egocentric Perception, Interaction and Computing presented at IEEE/CVF Conference on Computer Vision and Pattern Recognition ([WCVPR22](#)),  
**3<sup>rd</sup> place at the EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge for Action Recognition.**
- 06/2022 Chiara Plizzari\*, Mirco Planamente\*, Gabriele Goletto, Marco Cannici, Emanuele Gusso, Matteo Matteucci, Barbara Caputo  
"*E<sup>2</sup>(GO)MOTION: Motion Augmented Event Stream for Egocentric Action Recognition*"  
In: *Conference on Computer Vision and Pattern Recognition, [CVPR2022](#).*
- 05/2022 Mirco Planamente, Chiara Plizzari, Barbara Caputo  
"Test-Time Adaptation for Egocentric Action Recognition"  
In: *International Conference On Image Analysis and Processing, [ICIAP2021](#).*
- 01/2022 Mirco Planamente, Chiara Plizzari, Emanuele Alberti, Barbara Caputo  
"Domain Generalization through Audio-Visual Relative Norm Alignment in First Person Action Recognition"  
Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision ([WACV22](#))
- 06/2021 Chiara Plizzari, Mirco Planamente, Emanuele Alberti, Barbara Caputo  
"PoliTO-IIT Submission to the EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge for Action Recognition"  
The Eighth International Workshop on Egocentric Perception, Interaction and Computing presented at IEEE/CVF Conference on Computer Vision and Pattern Recognition ([WCVPR21](#)),  
**3<sup>rd</sup> place at the EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge for Action Recognition.**

- 06/2021 Mirco Planamente, Chiara Plizzari, Marco Cannici, Marco Ciccone, Francesco Strada, Andrea Bottino, Matteo Matteucci, Barbara Caputo  
*"DA4Event: towards bridging the Sim-to-Real Gap for Event Cameras using Domain Adaptation"*  
 IEEE Robotics and Automation Letters. 2021 30 June (RA-L),  
 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS21).
- 06/2021 Marco Cannici, Chiara Plizzari, Mirco Planamente, Marco Ciccone, Andrea Bottino, Barbara Caputo, Matteo Matteucci  
*"N-ROD: A Neuromorphic Dataset for Synthetic-to-Real Domain Adaptation"*  
 Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (WCVPR2021)
- 01/2021 Mirco Planamente, Andrea Bottino, Barbara Caputo  
*"Self-Supervised Joint Encoding of Motion and Appearance for First Person Action Recognition"*  
 International Conference on Pattern Recognition (ICPR20)
- 07/2020 Mohammad R. Loghmani, Luca Robbiano, Mirco Planamente, Barbara Caputo and Markus Vincze  
*"Unsupervised Domain Adaptation through Inter-modal Rotation for RGB-D Object Recognition"*  
 IEEE Robotics and Automation Letters. 2020 July 3 (RA-L),  
 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS20).
- 6/2019 Mohammad R. Loghmani, Mirco Planamente, Barbara Caputo and Markus Vincze  
*"Recurrent Convolutional Fusion for RGB-D Object Recognition"*  
 IEEE Robotics and Automation Letters. 2019 Jun 6,  
 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS19).

## PREPRINTS

- 2023 Mirco Planamente, Chiara Plizzari, Simone Alberto Peirone, Barbara Caputo, Andrea Bottino  
*"Relative Norm Alignment for Tackling Domain Shift in Deep Multi-modal Classification"*
- 2023 Simone Alberto Peirone, Gabriele Goletto, Mirco Planamente, Andrea Bottino, Barbara Caputo, Giuseppe Averta  
*"Conceptual Activity-Centric Zones for Egocentric Action Recognition"*
- 2023 Mirco Planamente, Mohammad R. Loghmani and Barbara Caputo  
*"A recurrent multi-scale approach to RGB-D Object Recognition"*  
 (Master thesis), In arXiv:1808.01357.

## WORK EXPERIENCE

2/01/2023 – 30/06/2023

### Internship

Coach-AI GmbH, Hilpertstraße 35, 64295 Darmstadt  
 Topic: "Computer Vision".

1/11/2019 – 30/10/2023

### Teaching Assistant

Polytechnic of Turin, Italy

2022/2023 bachelor course on Informatics

2021/2022 bachelor course on Informatics

2020/2021 master course on Machine Learning and Deep Learning

2020/2021 bachelor course on Informatics

2019/2020 master course on Machine Learning and Deep Learning

#### Conference Reviewer:

IROS2020, ICRA2020, ECCV2020, CVPR2021, ICRA2021, ICCV2021, IROS2021, WACV2022, CVPR2022, ICPR2022, ICRA2023, T-RO2023, TETA2023, CVPR2023, ICRA24

#### Co-chair IROS21:

Co-chair at the IROS21 - Visual Learning II session.

1/10/2018 – 31/05/2020 **Fellow Position**  
Italian Institute of Technology (IIT), Italy  
Topic: “Visual and Multimodal Applied Learning”.

6/11/2017 – 6/02/2018 **Research Assistant**  
Vienna University of Technology (TU WIEN)  
Institut für Automatisierung- und Regelungstechnik  
Master thesis project.

## EDUCATION AND TRAINING

1/11/2019 – 30/10/2023 **PhD**  
Polytechnic of Turin, Italy  
Topic: Multi-Modal Learning for Cross-Domain Analysis of Egocentric Action and Object Recognition  
Supervisors: Barbara Caputo, Andrea Bottino  
Degree mark Cum laude  
**Polito Quality Awards - 2022**  
Politecnico di Torino established some quality awards for the best Ph.D. students at the end of each year.

2015–2018 **Master of Science in Artificial Intelligence and Robotics**  
Sapienza University of Rome  
Facolta' di INGEGNERIA DELL'INFORMAZIONE, INFORMATICA E STATISTICA  
[LM (DM 270/04) ORDIN. 2016 - Course delivered in ENGLISH LANGUAGE] -  
2nd level degree in Computer engineering

Thesis Title Recurrent Convolutional Fusion for RGB-D Object Recognition  
Thesis supervisor Barbara Caputo  
Degree mark 110/110 cum laude  
Choice exams – Distributed System [1022807 - ING-INF/05]  
– Neural Networks [1022870 - ING-IND/31]  
– Foundation of computer Graphics [1044387 - INF/01]  
– Medical Robotics [1022863 - ING-INF/04]  
– Elective in Artificial Intelligence [1056413 - ING-INF/05]  
– Formal methods [1038133 - ING-INF/05]  
– Mobile applications and cloud computing [1044415 - ING-INF/05]

2012–2015 **Ingegneria Informatica e Automatica**  
Sapienza University of Rome  
Facolta' di INGEGNERIA DELL'INFORMAZIONE, INFORMATICA E STATISTICA  
[L (DM 270/04) - ORDIN. 2013] - 1st level degree in Information technology

Thesis Title Sistema di navigazione teleoperata con assistenza per collision avoidance  
Thesis supervisor Daniele Nardi  
Degree mark 107/110  
Specific field of the degree course Automatica  
Choice exams – Modellistica e simulazione [1021851 - ING-INF/04]  
– Controllo e gestione delle reti [1021760 - ING-INF/04]

2007–2012 **Liceo Scientifico Statale "G.Peano"**

Monterotondo (RM)  
Degree mark 84/100

**PERSONAL SKILLS**

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B2

Levels: A1/A2: Basic user – B1/B2: Independent user – C1/C2: Proficient user  
[Common European Framework of Reference \(CEF\) level](#)

**Computer skills**

- Programming languages: Python, Java, Javascript, C++, SQL, Prolog
- Deep Learning Libraries: PyTorch, Tensorflow, Caffe
- Web coding: HTML, PHP
- Operating Systems: Linux, Windows, MacOS
- Software: Matlab, Simulink, Microsoft Office Suite, LaTeX

**Soft skills**

- Communication: I've exercised and improved my communication skills while working as a teaching assistant.
- Team work: I have worked in various project exams collaborating with my course colleagues.
- Intercultural skills: during my master thesis period at TU Wien (Austria) I had the opportunity to collaborate with international researchers and I enjoyed the intercultural environment.

Driving licence B