Chiara **Plizzari**

Born · 9 March 1995, Italy

Ph.D. Student @ PoliTO

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Research Interests

Video Understanding, Activity Recognition, Egocentric Action Recognition, Multi-Modal Learning, Domain Adaptation and Generalization, Self-Supervised Learning, 3D scene understanding

Education

University of California, Berkeley
Berkeley, California

Visiting Exchange — *January 2023 - February 2023*

- Visiting at the Berkeley Artificial Intelligence Research Lab (BAIR)
- Supervised by Professor Dima Damen, collaboration with Prof. Angjoo Kanazawa.

University of Bristol
Bristol, England

Visiting Exchange — *March 2022 - November 2022*

- Main topic: "Domain Generalization for Egocentric Action Recognition"
- Supervised by Professor Dima Damen in the Machine Learning and Computer Vision Group.

Politecnico di Torino
Turin, Italy

Doctor of Philosophy (Ph.D.) in Computer and Control Engineering (focus on Computer Vision) — *September 2020 - now*

- Main topic: "Self-Supervised Cross-Domain Activity Classification from Multiple Information Channels"
- Supervised by professor Barbara Caputo in the Visual and Multi-Modal Applied Learning group.
- ELLIS PhD student co-supervised by Prof. Dima Damen.
- Expected graduation date: August 2024

Istituto Italiano di Tecnologia (IIT)
Turin, Italy

Research Grant — *May 2020 - December 2020*

- Research topic: "Cross-Domain Egocentric Action Recognition from Multiple Information Channels"
- Supervised by Professor Barbara Caputo. Founded by RoboExNovo ERC grant.

Politecnico di Milano
Milan, Italy

M.Sc. in Computer Science and Engineering — *September 2017 - April 2020*

- Final Grade: 110 Cum Laude / 110
- Master Thesis "Spatial Temporal Transformer Network for Skeleton-based Activity Recognition"
- Supervised by Professor Matteo Matteucci.

Awards

Doctoral Consortium
ICCV, Paris

ICCV 2023 — *October 2023*

- Participation to the Doctoral Consortium

EPIC-Kitchens Unsupervised Domain Adaptation challenge for Action Recognition
CVPR, Vancouver

2nd place — *June 2023*

- Presented at the IEEE/CVF Computer Vision and Pattern Recognition conference

EPIC-Kitchens Unsupervised Domain Adaptation challenge for Action Recognition
CVPR, virtual

3rd place — *June 2021*

- Presented at the IEEE/CVF Computer Vision and Pattern Recognition conference

ACE Datathon 2019 - Analytics Club ETH — *ETH University, Zurich*

2ND PLACE — *7-8 November 2019*

- The Challenge: odometer reading from images using Machine Learning and Deep Learning approaches

Community Engagements

2023	**Seminar Talk,** Title: Cross-domain Egocentric Action Recognition @ I-RIM Conference	*Rome, Italy*
2023	**Organizer,** Organizer of Women In Computer Vision Workshop (WiCV)@ICCV 2023	*Paris, France*
2022	**Summer School,** Participation at the International Computer Vision Summer School (ICVSS 2022)	*Catania, Italy*
2022	**Seminar Talk,** Title: Cross-domain Action Recognition from Multiple Information Channels	*Bristol, England*
2021-now	**Reviewer,** ICCV, CVPR, ECCV, WACV, ICPR, IROS, NIPS, IEEE Signal Processing Letters, Applied Intelligence, Robotics and Automation Letters, Computer Vision and Image Understanding, IEEE Transactions on Multimedia, International Journal of Multimedia Information Retrieval, Pattern Recognition	*Online*

Teaching Activities

Ongoing	**Master Thesis Co-Supervisor,** Title: Skeleton-based Pose Estimation, Marchetti, E.	*Politecnico di Torino*
Ongoing	**Master Thesis Co-Supervisor,** Title: Egocentric 3D Scene Understanding, Candidate: Borgna, F.	*Politecnico di Torino*
Ongoing	**Master Thesis Co-Supervisor,** Title: Large Language Models for Domain Adaptation in Egocentric Action Recognition, Candidate: Nasirimajd, A.	*Politecnico di Torino*
2023	**Master Thesis Co-Supervisor,** Title: Pseudo-label Techniques for Domain Adaptation, Candidate: Guerrier, R.	*University of Bristol*
2023	**Teaching Assistant,** in Machine Learning and Deep Learning MsC course	*Politecnico di Torino*
2022	**Teaching Assistant,** in Machine Learning and Deep Learning MsC course	*Politecnico di Torino*
2021	**Master Thesis Co-Supervisor,** Title: Test-Time Adaptation for Egocentric Action Recognition, Candidate: Neubert, J., Peirone, S.	*Politecnico di Torino*
2021	**Master Thesis Co-Supervisor,** Title: Domain Adaptation for Egocentric Action Recognition, Candidate: Zaccone, R.	*Politecnico di Torino*
2020	**Master Thesis Co-Supervisor,** Title: Egocentric Event-data for cross-domain analysis in first-person action recognition, Candidates: Goletto, G., Gusso, E.	*Politecnico di Torino*

Skills

Programming Python, C, Java, R

Frameworks NumPy, Pandas, PyTorch, TensorFlow

Languages Italian (Native Speaker), English (C1-TOEFL, TOEIC, FIRST (FCE)), German (Basic)

Publications

* Equal Contribution

Planamente, M., **Plizzari, C.**, Peirone, S., Caputo, B., Bottino, A., **Relative Norm Alignment for Tackling Domain Shift in Deep Multi-modal Classification**, under submission at IJCV.

Plizzari*, C., Goletto*, G., Furnari*, A., Bansal*, S., Ragusa*, F., Farinella, G., Damen, D., Tommasi, T., **An Outlook into the Future of Egocentric Vision**, under submission at IJCV.

Plizzari, C., Perrett, T., Caputo, B., Damen, D., **What can a cook in Italy teach a mechanic in India? Action Recognition Generalisation Over Scenarios and Locations**, ICCV 2023. (Conference Paper)

Neubert, J., Planamente, M., **Plizzari, C.**, Caputo, B., **LCMV: Lightweight Classification Module for Video Domain Adaptation**, ICIAP 2023. (Conference Paper)

Nasirimajd, A., Peirone, S., **Plizzari, C.**, Caputo, B., **EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge:**

Mixed Sequences Prediction, EPIC@CVPR2023 Workshop, Second Place at the EPIC-Kitchens Action Recognition Competition at CVPR 2023. (Technical Report)

Guerrier, R., **Plizzari, C.**, Damen, D., Perrett, T., **EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge: Mixed Sequences Prediction**, EPIC@CVPR2023 Workshop, Submission to the EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge for Action Recognition at CVPR 2023. (Technical Report)

Plizzari*, C., Planamente*, M., Goletto, G., Cannici, M., Gusso, E., Matteucci, M., Caputo, B., **E^2(GO)MOTION: Motion Augmented Event Stream for Egocentric Action Recognition**, CVPR 2022. (Conference Paper)

Planamente*, M., **Plizzari*, C.**, Caputo, B., **Test-Time Adaptation for Egocentric Action Recognition**, ICIAP 2022. (Conference Paper)

Planamente*, M., **Plizzari*, C.**, Alberti, E., Caputo, B., **Domain Generalization through Audio-Visual Relative Norm Alignment in First Person Action Recognition**, WACV 2022. (Conference Paper)

Plizzari*, C., Planamente*, M., Alberti, E., Caputo, B., **PoliTO-IIT Submission to the EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge for Action Recognition**, EPIC@CVPR2021 Workshop, Third Place at the EPIC-Kitchens Action Recognition Competition at CVPR 2021. (Workshop Paper)

Planamente*, M., **Plizzari*, C.**, Cannici*, M., Ciccone, M., Strada, F., Bottino, A., Matteucci, M., Caputo, B., **DA4Event: towards bridging the Sim-to-Real Gap for Event Cameras using Domain Adaptation**, IROS 2021. (Conference Paper)

Planamente*, M., **Plizzari*, C.**, Cannici*, M., Ciccone, M., Strada, F., Bottino, A., Matteucci, M., Caputo, B., **DA4Event: towards bridging the Sim-to-Real Gap for Event Cameras using Domain Adaptation**, IEEE Robotics and Automation Letters (RA-L) 2021. (Journal Paper)

Cannici*, M., **Plizzari*, C.**, Planamente*, M., Ciccone, M., Bottino, A., Caputo, B., Matteucci,M., **N-ROD: A Neuromorphic Dataset for Synthetic-to-Real Domain Adaptation**, CVPRW 2021. (Workshop Paper)

Plizzari, C., Cannici, M., Matteucci, M., **Spatial Temporal Transformer Network for Skeleton-based Activity Recognition**, ICPRW 2021. (Workshop Paper)

Plizzari, C., Cannici, M., Matteucci, M., **Skeleton-based action recognition via spatial and temporal transformer networks**, Computer Vision and Image Understanding (CVIU), 2021. (Journal Paper)