

Chiara Plizzari

BORN · 9 MARCH 1995, ITALY

Ph.D. Student @ PoliT

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| 🎓 Chiara's Scholar



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: March 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.

Utrecht University

Utrecht, Netherlands

INTERNATIONAL EXCHANGE

September 2018 - March 2019

- Core focus in Data Science and Artificial Intelligence

Politecnico di Milano

Milan, Italy

B.Sc. IN COMPUTER SCIENCE AND ENGINEERING

September 2014 - July 2017

Awards

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	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
2021	Staff Member , in the organization of I-RIM 2021 Conference	Rome
2021	Summer School , Participation at the 4th International School on Deep Learning	Las Palmas de Gran Canaria, Spain

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: Sequential Domain Adaptation for 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

Plizzari*, C., Goletto*, G., Furnari*, A., Bansal*, S., Ragusa*, F., Farinella, G., Damen, D., Tommasi, T., An Outlook into the Future of Egocentric Vision, to be submitted.

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, accepted at ICCV 2023. (Conference Paper)

Neubert, J., Planamente, M., **Plizzari, C.**, Caputo, B., **LCMV: Lightweight Classification Module for Video Domain Adaptation**, accepted at 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., **E²(GO)MOTION: Motion Augmented Event Stream for Egocentric Action Recognition**, accepted at CVPR 2022. (Conference Paper)

Planamente*, M., **Plizzari*, C.**, Caputo, B., **Test-Time Adaptation for Egocentric Action Recognition**, accepted at 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**, IEEE Winter Conference on Applications of Computer Vision (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**, IEEE/RSJ International Conference on Intelligent Robots and System (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**, Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPRW), 2021. (Workshop Paper)

Plizzari, C., Cannici, M., Matteucci, M., **Spatial Temporal Transformer Network for Skeleton-based Activity Recognition**, International Conference of Computer Vision (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)

Other Projects

Software Engineering

TEAM PROJECT

- Java implementation of the board game “Lorenzo Il Magnifico” by Cranio Creations

Politecnico di Milano, Milano

Aprile 2017 - July 2017