

# Giacomo Zara

PH.D. · PRICING ANALYST · AI & DATA ENGINEER · DEEP LEARNING · ARTIFICIAL INTELLIGENCE · COMPUTER VISION

Rome (Italy)

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🎓 Giacomo Zara

## Personal information

**Date of birth** 22/06/1995

**Nationality** Italian

**Current work address** Via Lucullo 14, 00187 Rome (Italy)

**Home city** Rome (Italy)

## Education

### University of Trento

Trento, Italy

MSC IN COMPUTER SCIENCE

2018 - 2019

- Thesis on topics related to Structured Learning for Social Media Management

### University of Trento

Trento, Italy

BSC IN COMPUTER SCIENCE

2014 - 2018

- Thesis on topics related to Machine Learning for Natural Language Processing

## Skills

**Computer Vision** Video Analysis, Human Behavior Understanding, Human Action Recognition, Vision&Language

**Deep Learning** Deep Neural Networks, Transformers, Contrastive Learning, CLIP, Large Language Models

**Large Language Models** Training, Fine-tuning, Bias identification and mitigation, Trustworthy AI

**Programming** Python, JAVA, R

**Languages** Italian, English

## Experience

### Allianz SE (Rome branch)

Rome, Italy

PRICING ANALYST | AI & DATA ENGINEER

Dec. 2024 - Present

- Member of the Global P&C Pricing team
- Data science & AI applied to insurance pricing

### University of Trento

Trento, Italy

PH.D. STUDENT

Nov. 2020 - Jan. 2025

- Research focus on Domain Adaptation for Video Action Recognition
- Extensive use of vision transformers, contrastive learning, vision&language
- Publications in top venues such as CVPR, ICCV, WACV, ICPR
- Visiting periods abroad at the University of Bristol (UK) and IBM Ireland (Ireland)
- Supervised by prof. Elisa Ricci
- Obtained doctorate on January 2025

### IBM

Dublin, Ireland

VISITING RESEARCHER

May. 2024 - Sep. 2024

- Worked on Large Language Models (LLMs), with particular respect to model explanation, model differencing, bias mitigation
- Hands-on experience on model fine-tuning
- Took part in the Trustworthy AI group

### University of Bristol

Bristol, UK

VISITING STUDENT

Jun. 2023 - Sep. 2023

- Part of the MaVi vision group, supervised by Prof. Dima Damen
- Worked on topics related to Domain Generalization for videos

### University of Trento

Trento, Italy

TEACHING ASSISTANT

Feb. 2022 - Feb. 2023

- Deep Learning course for master students, held by prof. Elisa Ricci
- Lab lectures, design and evaluation of practical exam assignments

## Fondazione Bruno Kessler (FBK)

RESEARCH TECHNOLOGIST

- Part of the e-Health department
- Development and integration of health-related app for virtual assistants, Amazon Alexa and Google Assistant

Trento, Italy

Sep. 2018 - Dec. 2019

## Enel Italia

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- Worked on a Natural Language Processing pipeline on textual content

Rome, Italy

Mar. 2017 - Jul. 2017

## Publications

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2024	<b>Text-Enhanced Zero-Shot Action Recognition: A training-free approach</b> , Massimo Bosetti, Shibingfeng Zhang, Benedetta Liberatori, Giacomo Zara, Elisa Ricci, Paolo Rota	ICPR
2024	<b>Simplifying Open-Set Video Domain Adaptation with Contrastive Learning</b> , Giacomo Zara, Victor G. Turrisi da Costa, Subhankar Roy, Paolo Rota, Elisa Ricci	CVIU
2023	<b>The Unreasonable Effectiveness of Large Language-Vision Models for Source-free Video Domain Adaptation</b> , Giacomo Zara, Alessandro Conti, Subhankar Roy, Stéphane Lathuilière, Paolo Rota, Elisa Ricci	ICCV
2023	<b>AutoLabel: CLIP-based framework for Open-set Video Domain Adaptation</b> , Giacomo Zara, Subhankar Roy, Paolo Rota, Elisa Ricci	CVPR
2023	<b>Rotation Synchronization via Deep Matrix Factorization</b> , Gk Tejus, Giacomo Zara, Paolo Rota, Andrea Fusiello, Elisa Ricci, Federica Arrigoni	ICRA
2022	<b>Unsupervised Domain Adaptation for Video Transformers in Action Recognition</b> , Victor G. Turrisi da Costa, Giacomo Zara, Paolo Rota, Thiago Oliveira-Santos, Nicu Sebe, Vittorio Murino, Elisa Ricci	ICPR
2022	<b>Dual-Head Contrastive Domain Adaptation for Video Action Recognition</b> , Victor G. Turrisi da Costa, Giacomo Zara, Paolo Rota, Thiago Oliveira-Santos, Nicu Sebe, Vittorio Murino, Elisa Ricci	WACV
2018	<b>Predicting emoji exploiting multimodal data: FBK participation in ITAmoji task</b> , Andrei Catalin Coman, Yaroslav Nechaev, Giacomo Zara	EVALITA
2018	<b>Exploiting Deep Neural Networks for Tweet-based Emoji Prediction</b> , Andrei Catalin Coman, Yaroslav Nechaev, Giacomo Zara	International Workshop on Semantic Evaluation