

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

INTERN

- Worked on a Natural Language Processing pipeline on textual content

Rome, Italy

Mar. 2017 - Jul. 2017

Publications

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