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 Sommarive, 9, 38123 Trento (Italy)
Home city	Rome (Italy)

Education

University of Trento — *Trento, Italy*
BSc IN COMPUTER SCIENCE — *2014 - 2018*
- Thesis on topics related to Machine Learning for Natural Language Processing

University of Trento — *Trento, Italy*
MSc IN COMPUTER SCIENCE — *2018 - 2019*
- Thesis on topics related to Structured Learning for Social Media Management

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
- **Expected graduation date: by 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)   *Trento, Italy*

Research Technologist   *Sep. 2018 - Dec. 2019*

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

Enel Italia   *Rome, Italy*

Intern   *Mar. 2017 - Jul. 2017*

- Worked on a Natural Language Processing pipeline on textual content

Publications

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*