

Adriano Fragomeni

2ND YEAR PHD STUDENT IN COMPUTER VISION AT UNIVERSITY OF BRISTOL

☎ (+44) 7585844630 | ✉ adriano.fragomeni@bristol.ac.uk | 🏠 [adrianofragomeni.github.io](https://github.com/adrianofragomeni) | 📄 [adrianofragomeni](#) | 📺 [adrianofragomeni](#) | 🐦 [@adrifragomeni](#)

Research Interests

I am a second-year PhD student in Computer Vision at the University of Bristol supervised by Professor Dima Damen. My research focuses on multimodal video understanding, particularly the interaction between vision and language in order to solve video-language tasks (i.e. cross-modal video retrieval). Given my group's expertise, I specialise in egocentric and instructional videos. I co-lead the EPIC-KITCHENS Multi-Instance Retrieval Challenge, and participated in the collection and release of the massive-scale Ego4D dataset.

Education

PhD in Computer Vision

Sep. 2020 - PRESENT

UNIVERSITY OF BRISTOL

Bristol, UK

- [Tentative] Thesis Title: Cross-Modal Retrieval in Egocentric and Instructional Videos
- Advisor: Prof Dima Damen

MSc in Data Science

Sep. 2017 - Apr. 2020

SAPIENZA UNIVERSITY OF ROME

Rome, IT

- Thesis Title: "3D Hand Pose and Shape Estimation from RGB Images"
- Advisor: Dr Aristidis Anagnostopoulos, Dr Danilo Avola, Mr Luigi Cinque
- Degree Classification: 110/110 with honours

BSc in Physics

Sep. 2010 - Nov. 2016

SAPIENZA UNIVERSITY OF ROME

Rome, IT

- Dissertation Title: "Dark Matter: observational evidence in the Milky Way"
- Advisor: Dr Paolo de Bernardis
- Degree Classification: 93/110

Employments

Teaching Assistant

Oct. 2020 - PRESENT

UNIVERSITY OF BRISTOL

Bristol, UK

- Applied Deep Learning (2020/2021,2021/2022)

Python/Machine Learning Tutor

May 2010

SKIENDA

Rome, IT

- Tutored a six-student class on basic machine learning algorithms
- Prepared and assigned four final big projects for the final evaluation

Publications

Google Scholar Citation Metrics

2022

- Grauman, K., Westbury, A., Byrne, E., Chavis, Z., Furnari, A., Girdhar, R., Hamburger, J., Jiang, H., Liu, M., Liu, X. and Martin, M., 2022. Ego4d: Around the world in 3,000 hours of egocentric video. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (pp. 18995-19012).
- Avola, D., Cinque, L., Fagioli, A., Foresti, G.L., Fragomeni, A. and Pannone, D., 2022. 3D hand pose and shape estimation from RGB images for keypoint-based hand gesture recognition. Pattern Recognition, 129, p.108762.

2021

- Damen, D., Fragomeni, A., Munro, J., Perrett, T., Whettam, D., Wray, M., Furnari, A., Farinella, G.M. and Moltisanti, D., 2021. Epic-kitchens-100-2021 challenges report.

Projects

EPIC-KITCHENS Challenges

Mar. 2021 - PRESENT

2021 CHALLENGES

<http://epic-kitchens.github.io/>

I co-lead the EPIC-KITCHENS-100 Multi-Instance Retrieval challenge and Codalab leaderboard. In 2021, I reviewed and assessed technical reports submitted to the challenge.

Ego4D Project

Oct. 2020 - PRESENT

13 UNIVERSITIES IN COLLABORATION WITH META AI

<https://ego4d-data.org/>

Ego4D is a massive-scale, egocentric dataset and benchmark suite collected across 74 worldwide locations and 9 countries, with over 3,025 hours of daily-life activity video.

My two main responsibilities during the collection of the dataset were:

- Organising preliminary Zoom meetings with the participants to explain the procedure, answer any questions and agree on the scenarios to be recorded.
- Being in charge of a small team of PhD students to anonymise the footage by using a specific software with integrated tools and user interfaces for manual tracking and adjusting detections.

Currently, I am actively working on the soft-launched Ego4D data, for cross-modal retrieval.

ERC INSCRIBE Project

Apr. 2018 - June. 2020

ALMA MATER STUDIUM - UNIVERSITY OF BOLOGNA

<https://site.unibo.it/inscribe/en/about-1>

INSCRIBE is a project funded by the European Commission under the ERC Consolidator grant program composed by a strongly interdisciplinary team of researchers. INSCRIBE examines the factors that made the invention of writing possible, when this was done as an original creation, in different parts of the world. This question has never been approached through a comparative perspective that includes writing systems that we can read, but those whose languages are still unknown.

I was involved in the project as an External Team Member to do a statistical analysis of the Cretan hieroglyphs' symbol inventory.

Skills

Programming Python, C, SQL (Postgres), R

Frameworks Pytorch, Tensorflow, Keras

Developer Tools Git, Anaconda, Rstudio, Microsoft Office, Latex

Languages

Italian Native Language

English Professional Working Proficiency