



About Me

Versatile, passionate and excelling AI student with a strong multidisciplinary background. My main area of interest lies at the intersection between Machine Learning and Computer Vision, with specific attention to (bio) medical applications.



Contact

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Education

2021 - Present (Current GPA: 8.42)

MSc. Artificial Intelligence University of Amsterdam (NL)

2018- 2021 (Cum Laude)

BSc. Advanced Technology University of Twente (NL)



Languages

Italian •••• German ••••• English •••• French ••000



Other Experience

2016 - Present

GRAPHIC DESIGNER AND ANIMATOR

Freelancing online

July 2017

RETAIL, MARKETING & ADVERTISING **EVENTS ASSISTANT** Meridian School of English, Portsmouth (UK)

2018 - 2020

 STUDENT-FOR-A-DAY MENTOR University of Twente, Enschede (NL)



Certifications

- Microsoft Azure Al Fundamentals
- Advanced English (C1 Level)

Matteo Tafuro

Artificial Intelligence Student

Relevant Experience

WORK EXPERIENCE

June 2022 - November 2022 (University of Amsterdam)

• Teaching Assistant of the Computer Vision 1 Course. Preparing the contents of the course, helping with seminars and labs, supervising students and grading assignments/exams.

 Lesson planning
 Communication skills
 Leadership
 Multitasking
 Resourcefulness

April 2022 - Ongoing (University of Amsterdam)

Research Intern

Using AI algorithms to explore whether the diversification of gender in the social world predates, concurs, or postdates portrayals of gender in visual artworks.

(Dataset generation) (Data scraping) (BeautifulSoup) (Python) (Pandas) (Numpy)

NOTEWORTHY ACADEMIC PROJECTS

- Supervision-by-registration: temporally consistent heart chamber contour detection (Current MSc. Thesis @ research group qurAI):
 - Using Image Registration as a supervision signal to extrapolate ground truth contours that remain consistent over time.

 Python
 Pytorch Lightning
 Image Registration
 Medical Imaging
 Ultrasound Imaging

- Assessing the contractile properties of Engineered Heart Tissues using optical flow algorithms (BSc. Thesis):
 - Presented a novel workflow for the extraction, characterization and assessment of the contractile properties of Engineered Heart Tissues that relies on motion estimation and optical flow.

Python Pytorch Computer Vision OpenCV Optical Flow Medicine and Biology

Publications

Matteo Tafuro, Andrea Lombardo, Tin Hadži Veljković, Lasse Becker-Czarnetzki. (2022)

 [Re] Exacerbating Algorithmic Bias through Fairness Attacks Rescience C, 8(2), #22. DOI: 10.5281/zenodo.6574669

Machine Learning Pytorch Lightning Tensorflow Interpretability Fairness

Sameer Ambekar, Matteo Tafuro, Ankit, Diego van der Mast, Mark Alence. (2022)

 SKDCGN: Source-free Knowledge Distillation of Counterfactual Generative Networks using cGANs

Accepted at ECCV 2022 Workshop VIPriors. DOI: 10.48550/arXiv:2208.04226

Deep Learning Generative Models (GANs) Independent Research Team working GIT

Awards

- Invited to present my paper in the inaugural NeurIPS 2022 Journal Showcase Track (New Orleans, USA, 28 Nov 2022 - 9 Dec 2022)
- Awarded Outstanding Paper Award in ML Reproducibility Challenge 2021





