

Dimitrios Mallis, PhD

(COMPUTER VISION | DEEP LEARNING) RESEARCHER

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Whenever you are asked if you can do a job, tell 'em, "Certainly I can!" Then get busy and find out how to do it. – Theodore Roosevelt

RESEARCH INTERESTS

Computer Vision, Machine Learning, Deep Learning, Landmark Localisation, Human Pose Estimation, Self-Supervised Learning, Semi-Supervised Learning, Learning Under Noise, Self-Training, Visual Question Answering, Video Understanding, Recommender Systems, 3D Computer Vision.

EDUCATION

University of Nottingham

Jan 2018 - Nov 2022

PHD IN COMPUTER VISION

- Thesis Title: *Unsupervised Landmark Localisation via Self-Training Correspondence*.
- Supervisor: Dr. Yiorgos Tzimiropoulos.
- Research areas: Unsupervised Landmark Discovery, Self-Supervised Learning, Self-Training.

Democritus University of Thrace

Sept 2010 - Nov 2015

DIPLOMA IN ELECTRICAL AND COMPUTER ENGINEERING

- Grade: 8/10.
- Duration: 5 Year Program.

WORK EXPERIENCE

University of Luxembourg

Jan 2021 - *present*

POSTDOCTORAL RESEARCHER

- Working within the SnT research Group as a member of CVI², headed by Prof. Djamila Aouada.
- Research areas: 3D Computer Vision, Deep Learning for Computer Aided Design (CAD).

Taboola (consulting through Deeplab)

Jan 2021 - *present*

SENIOR MACHINE LEARNING ENGINEER

- R&D on Taboola's Recommender System infrastructure.
- Research areas: Recommender Systems, CTR Prediction, Deep Learning, Machine Learning.

Samsung AI Centre Cambridge (SAIC-C)

Sept 2020 - Dec 2021

RESEARCH INTERN

- PhD Internship extended into a part-time position.
- Research areas: 2D/3D Human Pose Estimation, Semi-Supervised Learning, Emotion Recognition.

Singular Logic

Oct 2016 - Jan 2018

SOFTWARE ENGINEER (C# .NET)

- Backend software development for public sector organisations.

REVIEWER

NeurIPS, ECCV, BMVC, ICIP, ICMLA, CVPR.

DISTINCTIONS

- Awarded a full PhD scholarship by the *University of Nottingham* and *The Douglas Bomford Trust*. (2018)
- Graduated with the 4th highest grade for his cohort, *Democritus University of Thrace*. (2015)

TEACHING EXPERIENCE

University of Nottingham

2018 - 2020

TEACHING ASSISTANT

Modules: COMPUTER FUNDAMENTALS, C++ PROGRAMMING, MOBILE DEVELOPMENT, IMAGE PROCESSING

SKILLS

Deep Learning	PyTorch, TensorFlow, Keras.
Frameworks/Packages	Scikit-Learn, SciPy, Numpy, Matplotlib, OpenCV, Jupyter, Pandas, SQL, BigQuery.
Programming	Python, C#, Matlab, Linux.
Software Development	Object-Oriented Design, Git, Agile, Jira, Confluence.
Research	Academic Writing, Research Mindset, Latex / Overleaf.
Soft Skills	Critical Thinking, Strong Communicator, Continuous Learner, Effective Collaborator.
Launguages	English, Greek.

HOBBIES

Callisthenics, Yoga, Photography, Audiobooks, Chess, Motorcycling.

PUBLICATIONS

- [1] Dimitrios Mallis, Enrique Sanchez, Matt Bell, and Georgios Tzimiropoulos. “From Keypoints to Object Landmarks via Self-Training Correspondence: A novel approach to Unsupervised Landmark Discovery”. In: *IEEE Transactions on Pattern Analysis and Machine Intelligence* (2023). DOI: [10.1109/TPAMI.2023.3234212](https://doi.org/10.1109/TPAMI.2023.3234212).
- [2] Petros Katsileros, Nikiforos Mandilaras, Dimitrios Mallis, Vassilis Pitsikalis, Stavros Theodorakis, and Gil Chamiel. “An Incremental Learning framework for Large-scale CTR Prediction”. In: *Proceedings of the 16th ACM Conference on Recommender Systems (RecSys)* (2022).
- [3] Dimitrios Mallis, Enrique Sanchez, Matt Bell, and Georgios Tzimiropoulos. “Unsupervised Learning of Object Landmarks via Self-Training Correspondence”. In: *Conference on Neural Information Processing Systems (NeurIPS)* (2020).
- [4] Matt Bell, Phil Garnsworthy, Dimitrios Mallis, Richrd Eckard, Peter Moate, and Tianhai Yan. “Modified approach to estimating daily methane emissions of dairy cows by measuring filtered eructations during milking”. In: *Landbauforschung* (2019).
- [5] Dimitrios Mallis, Thomas Sgouros, and Nikolaos Mitianoudis. “Convolutive audio source separation using robust ICA and an intelligent evolving permutation ambiguity solution”. In: *Evolving Systems* (2018).

- [6] Georgios Kalamatianos, Symeon Symeonidis, Dimitrios Mallis, and Avi Arampatzis. “Towards the creation of an emotion lexicon for microblogging”. In: *Journal of Systems and Information Technology* (2018).
- [7] Dimitrios Mallis, Thomas Sgouros, and Nikolaos Mitianoudis. “Convolutional Audio Source Separation Using Robust ICA and Reduced Likelihood Ratio Jump”. In: *Artificial Intelligence Applications and Innovations (AIAI)*. 2016.
- [8] Georgios Kalamatianos, Dimitrios Mallis, Symeon Symeonidis, and Avi Arampatzis. “Sentiment analysis of greek tweets and hashtags using a sentiment lexicon”. In: *Panhellenic Conference on Informatics* (2015).