Stathis **Galanakis**

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Summary

Computer Vision Engineer with a strong foundation in deep generative methods, specialising in 3D modelling of human faces and bodies. With publications in major computer vision conferences (ICCV, WACV), I focus on implementing cutting-edge algorithms that solve complex real-world problems.

Education

PhD in Computer Science   *April 2025*
Supervisor: Prof. Stefanos Zafeiriou   Imperial College London, UK
Thesis: Advancements in Face Reconstruction from a Single Image.
Description: During my PhD programme, I developed deep generative models (GANs, Diffusion models) for high-fidelity 3D face reconstruction from monocular images.

Diploma/M.Eng. in Electrical and Computer Engineering   *November 2019*
Supervisor: Prof. Petros Maragos   National Technical University of Athens, Greece
Thesis: Human Action Recognition and Localisation in Videos.
Description: I employed a novel deep neural architecture for joint action classification and localisation.

Experience

Department of Computing, Imperial College London   March 2025 - Present
Research Associate in Generative Computer Vision models

My research focuses on exploring diffusion-based generative methods for medical images, targeting data synthesis, augmentation, and classification under limited-availability scenarios. Alongside this, I utilise Large Language Models (LLMs) for classifying medical pathology reports.

Huawei UK, London   September 2024 - March 2025
Computer Vision Internship

I led a research project integrating 3D Gaussian Splatting (3DGS) with generic generative models, resulting in fully animatable avatars.

Huawei UK, London   January 2022 - January 2024
Computer Vision Internship

Focusing on 3D facial reconstruction from monocular images, I developed novel generative architectures that improved state-of-the-art performance, resulting in two peer-reviewed publications.

Business School, Imperial College London   February 2021 - January 2022
Research Assistant

I applied advanced machine learning algorithms to satellite and weather station data for predicting crop farm performance. This also included developing pipelines for synthetic data generation to address areas with limited data availability.

ArielAI, London   January 2020 - September 2020
Computer Vision Scientist

My main responsibilities included designing and implementing innovative automatic pipelines, for creating new in-the-wild datasets. This was achieved by applying state-of-the-art techniques to web data, and arranging human annotation tasks for ArielAI's annotators.

Pobuca Ltd, Athens   May 2018 - January 2019
R&D, ML Engineer

I engineered a methodology for end-to-end product detection in supermarket shelf images, including designing automated annotation tools, training, and production deployment.

Publications

SpinMeRound: Consistent Multi-View Identity Generation Using Diffusion Models.
Galanakis S, Lattas A, Moschoglou S, Kainz B, and Zafeiriou S.   *ICCV 2025*

SpinMeRound is a diffusion-based approach that generates consistent and accurate head portraits from novel viewpoints, given an input facial image.

ImHead: A Large-scale Implicit Morphable Model for Localized Head Modeling
Potamias R, **Galanakis S**, Deng J. Papaioannou A. and Zafeiriou S.   *ICCV 2025*

FitDiff: Robust monocular 3D facial shape and reflectance estimation using Diffusion Models.
Galanakis S, Lattas A, Moschoglou S, and Zafeiriou S.   *WACV 2025*

FitDiff is a multi-modal diffusion-based generative model that jointly produces facial geometry and appearance, conditioned on identity embeddings.

Ilsh: The imperial light-stage head dataset for human head view synthesis.
Zheng J, Jang Y, Papaioannou A, Kampouris C, Potamias R, Paraperas F, **Galanakis S**, and Zafeiriou S.   *ECCV 2023*

3DMM-RF: Convolutional Radiance Fields for 3D Face Modeling.
Galanakis S, Gecer B, Lattas A, and Zafeiriou S.   *WACV 2023*

3DMM-RF is an implicit 3D Morphable model that can accurately model a subject's identity, pose and expression under arbitrary illumination, by utilizing a style-based generator.

Languages

English (C2), German (B1), Greek (Native)

Technical Strengths

Programming Languages	Python, CUDA, C++
Frameworks	Pytorch, PyTorch Lightning, Pytorch3D
Tech Skills	GAN, Diffusion Models, NeRF, 3DGS, LLM

Interests

· Peer reviewer for the International Conferences such as CVPR 2024, 2025.

· Passionate about cycling, swimming, and running. I have participated in several sports events both individually and as part of a team.

· Former board member of the Athens branch of EESTEC, a student-run volunteering organisation.