EFSTATHIOS GALANAKIS

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SUMMARY

I am excited to use my industry and academic experience to bring cutting edge Computer Vision research to life. My interests lie in the field of Computer Vision particularly in tackling intricate challenges related to human faces and bodies. These encompass areas such as 3D facial reconstruction from monocular images, facial avatar generation using diffusion models, as well as engaging in dataset creation efforts.

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 studies, I conducted research on deep generative models for accurate 3D face reconstruction from a single image, utilizing methods such as GANs and diffusion models.

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 designed and implemented a deep neural architecture that jointly performs action classification and localization in video sequences by predicting bounding box trajectories and identifying corresponding actions.

EXPERIENCE

Department of Computing, Imperial College London March 2025 - Today
Research Assistant in Computer Vision

In my role as a research assistant, I investigate diffusion-based techniques, aimed at improving the tasks of skin lesion synthesis, classification, and segmentation.

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

I worked as a Computer Vision Intern in Huawei UK, focusing on designing a generic generative model utilizing advanced 3D Gaussian Splatting techniques.

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

As a Computer Vision Engineer at Huawei UK, I specialized in 3D facial reconstruction from monocular images. In this role, I integrated cutting-edge techniques to advance the field, to enhance the accuracy and effectiveness of reconstruction methods. My work involved pushing the boundaries of "state-of-the-art" approaches, such as NeRF and diffusion-based techniques.

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

I worked on an EU-funded program designed to predict the performance of crop farms over a specified time period. My role involved leveraging data collected from satellites and weather stations, applying advanced machine learning algorithms to analyze this data, and generating synthetic data 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 aiming to create new in-the-wild datasets by applying state of the art techniques to data across the web and planning human annotation tasks for ArielAI's annotators.

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

I worked as the only ML engineer to develop a network for automated product recognition in pictures taken from supermarket shelves. This required designing Computer Vision algorithms and tools for easy annotation and creating both training and detection procedures alongside back-end support.

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 E**, Leonardis A 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.

FOREIGN LANGUAGES

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

TECHNICAL STRENGTHS

Programming Languages	Python (Pytorch, PyTorch Lightning, Pytorch3d), C, CUDA, C++
Tech Skills	GAN, Diffusion Models, NeRFs, 3DGS

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 organization.