

# EFSTATHIOS GALANAKIS

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Github|LinkedIn

## SUMMARY

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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.

## EXPERIENCE

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**Department of Computing, Imperial College London**

April 2021 - Today

*Phd Student in Computer Vision*

*Supervisor : Prof. Stefanos Zafeiriou*

As a member of the iBUG lab, I am currently working in designing and implementing algorithms for extracting data regarding the 3D face shape of a person by exploiting pictures of him from different angles.

**Huawei UK, Lodon**

September 2024 - Today

*Computer Vision Intership*

I am currently working as a Computer Vision Intern in Huawei UK, where I focus on 3D facial reconstruction from monocular images using advanced 3D Gaussian Splatting techniques

**Huawei UK, Lodon**

January 2022 - January 2024

*Computer Vision Intership*

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, focusing on enhancing 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 in an EU funded programme aimed to predict how well the crop farms will perform in a desired time period. My work involved exploiting data gathered from satellites and weather stations, exploiting them by using the latest machine learning algorithms whereas creating synthetic data for areas with low-data availability.

**ArielAI, London**

January 2020 - September 2020

*Computer Vision Scientist*

My main responsibilities included designing and implementing innovative automatic pipelines in order 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 with back-end support.

I was a member of the board of the EESTEC's branch in Athens, a computer engineering students' volunteering organisation. While there, I took part in several events as a volunteer, some of those I help organising.

## PUBLICATIONS

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### **FitDiff: Robust monocular 3D facial shape and reflectance estimation using Diffusion Models**

March 2025

WACV 2025

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

### **3DMM-RF: Convolutional Radiance Fields for 3D Face Modeling**

January 2023

WACV 2023

In this work, I presented a facial 3D Morphable Model exploiting aspects from Nerf-based methods alongside with Style-Based GANs.

## EDUCATION

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### **Diploma/M.Eng. in Electrical and Computer Engineering**

November 2019

National Technical University of Athens, Greece

*Thesis Topic* : Human Action Recognition and Localisation in Videos (Supervisor: Petros Maragos)*Description* : Given a video in which a person performs an action, this architecture can predict a sequence of bounding boxes around the actor while simultaneously classifying the performed action.

## FOREIGN LANGUAGES

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

## TECHNICAL STRENGTHS

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### **Programming Languages Applications**

Python (Pytorch, PyTorch Lightning, OpenCV), C, CUDA, C++  
Latex, VSCode, Pycharm, Emacs, Matlab

## INTERESTS

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- Passionate about cycling, swimming, and running, I have participated in several sports events both individually and as part of a team.
- Experienced musician with a background in performing as a drummer in local bands.
- Photography and video enthusiast.