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Education

Imperial College London | PhD in Computer Science | 2019 - Present

Subject 1 | 3D Computer Vision for photo-realistic human avatar generation from unconstrained images

Subject 2 | Human face geometry and BRDF acquisition with a Light Stage capturing machine

Imperial College London | MSc in Advanced Computing | 2017-2018

Thesis | High Resolution 3D Face Generation with Generative Adversarial Networks (Python, Tensorflow, Graphics)

Modules | Statistical Machine Learning, Graphics, Reinforcement Learning, Computer Vision, Deep Learning, Finance

Athens University of Economics and Business | BSc Management Science and Technology | 2013-2017

Thesis | Improving control on Tensorflow Queues API (Technologies: Python, C++, Tensorflow) (Merged #10175)

Modules | Software Engineering, Algorithms, Statistics, Databases, Business Analytics, Website Architecture, IT Systems

University College London | School of Management (Affiliate Student) | 2015 - 2016

Modules | Innovation Management, Project Management, Corporate Financial Strategy, Digital Marketing, Psychology

Publications

Lattas, A., Wang, M., Ghosh, A. and Zafeiriou S. Multi-view Facial Capture using Binary Spherical Gradient Illumination. ACM SIGGRAPH. (2019).

Novel diffuse-specular separation and reconstruction for pore-level details multi-view facial captures with a Light Stage.

Lattas, A. and Spinellis, D. Echoes from Space: Grouping Commands with Large-Scale Telemetry Data. International Conference on Software Engineering, (40th). (2018).

Evaluation of ML, heuristic, and naive optimization GUI command grouping methods using telemetry data.

Research Experience

Research Assistant | Imperial College London | October 2018 - March 2019

Created the largest (known) dataset of photorealistic high-resolution 3D human faces and researched ways which Artificial Intelligence can generate photorealistic humans for AR and VR. (facesoft.io)

Technologies: Python, Tensorflow, Menpo, 3D Graphics, Stereo Reconstruction, Photogrammetry

Software Engineering Research Associate | Business Analytics Lab | July 2016 - June 2018

Undertaken three projects, under the guidance of Prof. D. Spinellis. Subjects: memory forensics, data-driven history of UNIX security and data-driven software engineering (paper accepted, ICSE 2018). (balab.aueb.gr)

Technologies: Python, scikit-learn, custom UNIX Kernels, C, memory maps, git

Econometrics Research Assistant | Centre of Planning and Economic Research (KEPE) | August 2014 - February 2015

Performed a linear analysis of the oil market in Greece and indicated anomalies to the Greek Competition Commission.

Technologies: Statistics, Stata, SPSS

Work Experience

3D Computer Vision Scientist | Facesoft | October 2018 - Present

Generating photorealistic human avatars and working on facial recognition and behavioural analysis. (facesoft.io)
Technologies: Python, Tensorflow, Pytorch, 3D Graphics, Stereo Reconstruction, Photogrammetry

Innovation Intern (Computer Vision) | Facesoft | July 2018 – September 2018

Optimized a pore-level detail 3D face reconstruction pipeline using a Light Stage and reduced execution time by 75%.
Technologies: Python, Photogrammetry, 3D models, 3D Reconstruction, LUA, Bash

Technical Consultant Intern | Oracle | March 2017 – May 2017

Customised Oracle Access Manager for three customers by creating Java plug-ins, Servlets and branded pages. Presented practical tutorials and for Oracle's Machine Learning powered cloud security platform to high officers.
Technologies: Java, JSP, UNIX, AWS, Cloud Security, PaaS / IaaS / SaaS services

Co-founder, International Coordinator | Junior Achievement Alumni Greece | June 2013 – February 2017

Entrepreneurship network with more than 200 members and now golden member among numerous European entrepreneurship networks. Co-founded it and started as Project Manager, organising more than 10 seminars, networking events and contests. Since 2015, responsible for our brand image and international events. (ja-alumni.eu/network)

Technical Competencies

Programming Skills | Python, SQL, UNIX, Tensorflow, Pytorch, Menpo, git, PHP

Other Skills | Machine Learning, Computer Vision, 3D Models, Photogrammetry, Data Visualization

Achievements

Postgraduate Scholarship 2017-2018 | Hellenic Petroleum

Postgraduate scholarship of £24.000, for studies in Advanced Computing at Imperial College London (1 out of 7 total).

Social Impact Award 2014 | Impact Hub Athens

With Blood-e, a novel platform facilitating blood donation by linking donors to those in need (1 out of 3 total). (bloode.org)

5 Honorary Distinctions | Athens University of Economics and business

Awarded by AUEB during my Bachelor's for academic performance, entrepreneurship endeavours and exceptional projects.

Courses and Certifications

Summer School in Machine Learning for Digital English Language Teaching	University of Cambridge	2017
Quality Software Developer Foundation Certificate in Maintainability	Software Improvement Group	2016
Software Developer: Foundation	Software Improvement Group	2016