Alexandros Lattas

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Education

Imperial College London | PhD in Computer Science | 2019 – Present | Supervised by Dr S. Zafeiriou and Dr A. Ghosh

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

Topic 2 | Human geometry and reflectance acquisition

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

Research & Work Experience

Researcher in Computer Vision (Part-Time) | Huawei Technologies Research & Technology | July 2020 – Present

Working on the intersection of Machine Learning, Computer Vision and Computer Graphics.

Research Assistant in Computer Vision (Part-Time) | Imperial College London | October 2018 – Present

Creating an immense dataset of photorealistic high-resolution 3D human faces, improving the Imperial College Light Stage and researching how Machine Learning can generate photorealistic humans for AR and VR. Published in CVPR, ECCV.

Computer Vision Scientist | Facesoft | October 2018 – June 2020

Worked on generating photorealistic human avatars, facial recognition and behavioural analysis. Published in CVPR.

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

Undertaken three projects, under the guidance of Prof. D. Spinellis. Subjects: memory forensics, UNIX security bug smells and data-driven software engineering. Published in ICSE.

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.

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.

Technical Competencies

Programming Skills | Python, SQL, UNIX, Tensorflow, Pytorch, Menpo, git, PHP, Swift, Java
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 e-platform for blood donation (€3,000) (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.

Co-founded and led 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)

Selected Publications

scholar.google.com

- **Lattas A**, Moschoglou S, Ploumpis S, Gecer B, Ghosh A, Zafeiriou S. AvatarMe++: Facial Shape and BRDF Inference with Photorealistic Rendering-Aware GANs. IEEE Transactions on Pattern Analysis and Machine Intelligence 2021 (TPAMI).

- Li S, Waheed U, Bahshwan M, Wang L, Kalossaka L, Choi J, Kundrak F, **Lattas A**, Ploumpis S, Zafeiriou S, Myant C. A scalable mass customisation design process for 3D-printed respirator mask to combat COVID-19. Rapid Prototyping Journal (2021) (RPJ).

- **Lattas A**, Moschoglou S, Gecer B, Ploumpis S, Triantafyllou V, Ghosh A, Zafeiriou S. AvatarMe: Realistically Renderable 3D Facial Reconstruction. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition 2020 (CVPR).

- Gecer B, **Lattas A**, Ploumpis S, Deng J, Papaioannou A, Moschoglou S, Zafeiriou S. Synthesizing coupled 3d face modalities by trunk-branch generative adversarial networks. In European Conference on Computer Vision 2020 Aug 23 Springer, Cham. (ECCV).

- Tzirakis P, Papaioannou A, **Lattas A,** Tarasiou M, Schuller B, Zafeiriou S. Synthesising 3D Facial Motion from" In-the-Wild" Speech. In2020 15th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2020) (FG).

- **Lattas A**, Wang M, Zafeiriou S, Ghosh A. Multi-view facial capture using binary spherical gradient illumination. In ACM SIGGRAPH 2019 Posters 2019 Jul 28 (SIGGRAPH).

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