

Christina Ourania Tze

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EDUCATION

Ph.D., Computer Vision and Machine Learning

09/2023 - Present

Autonomous Vision Group (AVG), University of Tübingen, Germany

- Member of the [ELLIS PhD program](#).
- Advisors: [Prof. Andreas Geiger](#) (University of Tübingen) and [Dr. Dzmitry Tsishkou](#) (Huawei Technologies France)

Integrated Master (B.Sc. & M.Eng.), Electrical and Computer Engineering

09/2016 - 10/2022

National Technical University of Athens (NTUA), Greece

- Concentration: Signals, Automatic Control and Robotics & Computer Systems & Computer Software
- Master's Thesis: Video Anonymization and Neural Rendering of Photo-realistic Human Actor Videos with applications to Sign Language. Grade: 10 out of 10
- Advisors: [Prof. Petros Maragos](#) (NTUA) & [Dr. Anastasios Roussos](#) (FORTH)
- Overall GPA: 9.23 out of 10 (top 4%)

RESEARCH EXPERIENCE

Research Assistant, Archimedes Research Unit, Athena Research and Innovation Center

03/2023 - 06/2023

- Worked as a team coordinator for the “Data for Social Good” research project, implemented in collaboration with the Hellenic Corporation of Assets and Participations (HCAP) and [Archimedes Unit](#) of Athena Research and Innovation Center.
- Developed a novel algorithm and application for bus passenger flow prediction.

Research Intern, Archimedes Research Unit, Athena Research and Innovation Center

06/2022 - 07/2022

- Interacted and worked with a large number of Greek and international researchers, junior and senior.
- Attended many crash courses and seminar slots covering a diverse set of areas (machine learning, data science, etc.).
- Joined the Computer Vision group (led by Prof. [Kostas Daniilidis](#), [Alex Dimakis](#) and [Katerina Fragkiadaki](#)) and expanded knowledge of state-of-the-art techniques (event-based vision, deep generative models, 3D scene representations, etc.) in the field.

Undergraduate Research Assistant, CVSP-IRAL Lab, NTUA

05/2021 - 10/2022

- Completed my [Master's Thesis](#) by diving deeply into the Computer Vision and Sign Language Processing fields, Video Anonymization, Photo-realistic Human Video Synthesis and Human Motion Retargeting techniques based on Neural Rendering.
- Developed a novel approach for anonymizing videos using animated cartoon characters instead of the original human actors. Our work [1] was accepted to the 2022 IEEE Image, Video, and Multidimensional Signal Processing Workshop (IVMSP).
- Developed a novel, deep learning-based method for transferring the body movements, head pose, facial expressions and eye gaze of a source actor in a driving video to a target subject in a photo-realistic output video. Our work [2] was accepted to the 2023 AI for Content Creation Workshop (AI4CC).

VOLUNTEERING EXPERIENCE

ICASSP 2023 Volunteer

06/2023

- Volunteer in the organization of the 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) held in Rhodes, Greece, between 4 – 10 June 2023.

First Lego League - Robot Design Judge

02/2019

- In charge of assessing participant teams in terms of Strategy, Innovation, Mechanical Design, Programming and Navigation of their robots.

Unique Minds - ECE Workshop Presenter

05/2018

- Designed and presented the hardware workshop for the Electrical and Computer Engineering (ECE) School of the National Technical University of Athens.

SPIN Space-Innovation - Logistics Team

09/2017 - 06/2018

- Responsible for order fulfillment and supply chain coordination for the CanSat competition in Greece.

SKILLS

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|-------------------------------|--|
| Programming Languages: | Python, C/C++, MATLAB, LaTeX |
| Tools and libraries: | OpenCV, TensorFlow, PyTorch, Keras, Pandas, SciPy, Scikit-learn, Scikit-image, Git |
| Languages: | Greek (Native Language), English (Full Professional Proficiency), French (Elementary Proficiency) |

HONORS & AWARDS

“ELLIS” PhD Program

09/2023

- Accepted to the ELLIS PhD Program supporting young researchers across Europe and connecting them to leading researchers.

“Archimedes” Summer Program 2022

06/2022

- Accepted to the 8-week-long Archimedes Summer Program that focused on the foundations of Machine Learning (ML), Artificial Intelligence (AI), Data Science and their supporting disciplines.

“The Great Moment for Education”, Eurobank EFG Scholarship

12/2016

- Achieving the highest score at the nationwide university entrance exam among students in my high school.

RESEARCH PRESENTATIONS

- “Cartoonized Anonymization of Sign Language Videos”, IEEE Image, Video, and Multidimensional Signal Processing Workshop, Nafplio, Greece, June 2022 (Oral)

PUBLICATIONS

- [1] **Christina O. Tze**, Panagiotis P. Filntisis, Anastasios Roussos, and Petros Maragos. “Cartoonized Anonymization of Sign Language Videos”. In: *IEEE 14th Image, Video, and Multidimensional Signal Processing Workshop (IVMSP)*. 2022.
- [2] **Christina O. Tze**, Panagiotis P. Filntisis, Athanasia-Lida Dimou, Anastasios Roussos, and Petros Maragos. “Neural Sign Reenactor: Deep Photorealistic Sign Language Retargeting”. In: *IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*. 2023.
- [3] **Christina O. Tze**, Daniel Dauner, Yiyi Liao, Dzmitry Tsishkou, Andreas Geiger. “PrITTI: Primitive-based Generation of Controllable and Editable 3D Semantic Urban Scenes”. In: *Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*. 2026.