Aggelina Chatziagapi

Email: aggelina@cs.stonybrook.edu ◇ *Website*: aggelinacha.github.io
LinkedIn: linkedin.com/in/aggelinacha ◇ *Google Scholar*: scholar/aggelinacha

Education

PhD in Computer Science ***Aug. 2020 - Present***
Stony Brook University, New York
- Research interests: Computer Vision and Deep Learning (Advisor: Prof. Dimitris Samaras)
- Relevant coursework: Computer Vision, Machine Learning, Robotics, Natural Language Processing (GPA: 4.0)

BSc & MSc in Electrical and Computer Engineering ***Sept. 2011 - Aug. 2017***
National Technical University of Athens (NTUA), Greece
- Thesis: "Speaker Adaptation for Speech Emotion Recognition" (Advisor: Prof. Alexandros Potamianos)
- Relevant coursework: Computer Vision, Pattern Recognition, Digital Signal Processing, Image and Video Analysis and Technology, Medical Image Processing, Speech and Natural Language Processing

Professional and Research Experience

Research & Teaching Assistant ***Aug. 2020 - Present***
Computer Vision Lab, Stony Brook University, New York
- Carry out research in 3D/4D human face reconstruction
- Carry out research in NeRF-based talking face video synthesis and expression transfer (& Amazon Prime Video)
- Teaching Assistant for Machine Learning course

Research Scientist Intern ***May 2022 - Present***
Meta Reality Labs, Redmond, WA & Sunnyvale, CA
- Carry out research in multimodal 4D face reconstruction
- Carry out research in audio-driven 4D human motion generation

Machine Learning Engineer ***April 2018 - May 2020***
Behavioral Signal Technologies, Los Angeles, CA (worked remotely from Greece)
- Developed robust models to recognize emotions and behaviors from speech in various domains and conditions
- Carried out research in data augmentation and GANs to address data imbalance in the real world
- Built the training and evaluation pipelines of the company's ML infrastructure

Computer Vision Engineer Intern ***Sept. 2017 - March 2018***
Terabee (CERN spin-off), Geneva, Switzerland
- Developed a people tracking and counting system using a ToF depth camera
- Developed an image processing algorithm to generate robot trajectories based on sensor data
- Adapted an optical character recognition system to real-world conditions

Lab & Research Assistant ***Sept. 2016 - Aug. 2017***
Speech and Language Processing Group, NTUA, Greece
- Carried out research in speech emotion recognition and speaker adaptation

Publications

- **A. Chatziagapi** and D. Samaras, "AVFace: Towards Detailed Audio-Visual 4D Face Reconstruction," *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023 [pdf]
- **A. Chatziagapi**, S. Athar, A. Jain, R. MV, V. Bhat, and D. Samaras, "LipNeRF: What is the right feature space to lip-sync a NeRF?," *International Conference on Automatic Face and Gesture Recognition*, 2023 [pdf]
- **A. Chatziagapi**, S. Athar, F. Moreno-Noguer, and D. Samaras, "SIDER: Single-Image Neural Optimization for Facial Geometric Detail Recovery," *International Conference on 3D Vision (3DV)*, 2021 [pdf]
- **A. Chatziagapi**, G. Paraskevopoulos, D. Sgouropoulos, G. Pantazopoulos, M. Nikandrou, T. Giannakopoulos, A. Katsamanis, A. Potamianos, and S. Narayanan, "Data Augmentation Using GANs for Speech Emotion Recognition," *Interspeech*, 2019 **(oral)** [pdf] [US patent]

Technical Skills

Programming	Python, C/C++, MATLAB, UNIX Shell Scripting
Software Tools	PyTorch, Keras/TensorFlow, NumPy, OpenCV, Scikit-learn, Git

Languages

English (fluent), **French** (intermediate), **Greek** (native)

Honors and Awards

ISCA Travel Grant, Interspeech 2019, Austria *Sept. 2019*
Honors, ranked 1st in math and science courses, I.M. Panagiotopoulos, Greece *June 2011*

Extra-Curricular Activities

Volunteer & Reviewer, IEEE 2018 Workshop on Spoken Language Technology, Greece *Dec. 2018*
Deep Learning Specialization, deeplearning.ai, Coursera *April 2018*
Certificate in Dance Teaching, Ministry of Culture and Sports, Greece *June 2015*