

# Aggelina Chatziagapi

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## 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 implicit representations (NeRFs, SDFs, etc) for human face reconstruction, talking face generation, and human body animation
- Carry out research in audio-driven talking face video synthesis and expression transfer (& Amazon Prime Video)
- Teaching Assistant for Machine Learning course

### Research Scientist Intern & Student Researcher

May 2023 - Nov. 2023

*Meta Reality Labs, San Francisco, CA*

- Carried out research in generalizable dynamic NeRFs for 4D full-body talking human animation
- Achieved state-of-the-art performance in animating talking humans under novel body poses, hand articulation, and facial expressions (under submission)

### Research Scientist Intern & Student Researcher

May 2022 - Nov. 2022

*Meta Reality Labs, Redmond, WA*

- Carried out research in multimodal (audio-visual) 4D face reconstruction
- Achieved state-of-the-art performance in face reconstruction by introducing an audio-driven implicit representation for the lip shape, temporal modeling to handle occlusions, and a fine stage to recover facial details

### 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

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

## Languages

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

## Honors and Awards

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**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

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**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*