

# 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 (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 Scientist Intern

May 2022 - Present

*Meta Reality Labs, Redmond, WA*

- Carry out research in multimodal 3D face reconstruction

### Research & Teaching Assistant

Aug. 2020 - Present

*Computer Vision Lab, Stony Brook University, New York*

- Carry out research in 3D human face reconstruction
- Carry out research in lip syncing and talking face video synthesis (collaboration w/ Amazon Prime Video)
- Teaching Assistant for Machine Learning course

### Machine Learning Engineer

April 2018 - May 2020

*Behavioral Signal Technologies, Los Angeles (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), France*

- 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**, 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) [\[pdf\]](#) [\[US patent\]](#)
- T. Giannakopoulos, S. Dimopoulos, G. Pantazopoulos, **A. Chatziagapi**, D. Sgouropoulos, A. Katsamanis, A. Potamianos, and S. Narayanan, “Using Oliver API for emotion-aware movie content characterization,” in *2019 International Conference on Content-Based Multimedia Indexing (CBMI)*, IEEE, 2019 [\[pdf\]](#)
- **A. Chatziagapi** and T. Giannakopoulos, “HCDA13: Combining hand-crafted and deep audio descriptors for making sense of generic sounds,” *Making Sense of Sounds Challenge*, 2018 [\[pdf\]](#)

## Technical Skills

### 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	<i>Sept. 2019</i>
Honors, ranked 1st in math and science courses, I.M. Panagiotopoulos, Greece	<i>June 2011</i>

## Extra-Curricular Activities

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