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 & 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 generation of talking face videos (collaboration w/ Amazon Prime Video)
- Teaching Assistant for Machine Learning course

Machine Learning Engineer   *April 2018 - May 2020*
Behavioral Signal Technologies Inc., 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

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*