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*
- Thesis: "Multi-modal & Multi-identity Neural Representations for Humans" (Advisor: Prof. Dimitris Samaras)
- Research interests: Deep Learning, Computer Vision, Multimodal Models
- Relevant coursework: Computer Vision, Machine Learning, Robotics, Natural Language Processing (GPA: 4.0)

Diploma (BSc & MSc) in Electrical and Computer Engineering ***Sept. 2011 - Aug. 2017***
National Technical University of Athens (NTUA) *Athens, 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

Computer Vision Lab, Stony Brook University ***Aug. 2020 - Present***
Research & Teaching Assistant *New York*
- Research in multi-modal and multi-identity neural representations for 3D/4D humans
- Research in audio-driven talking face video synthesis and expression transfer (with **Amazon Prime Video**)
- Teaching Assistant for Machine Learning course

Meta Reality Labs ***May 2024 - Dec. 2024***
Research Scientist Intern & Student Researcher *Pittsburgh, PA*
- Research in multi-modal diffusion models for 4D talking faces

Meta Reality Labs ***May 2023 - Nov. 2023***
Research Scientist Intern & Student Researcher *San Francisco, CA*
- Research in generalizable dynamic NeRFs for 4D full-body talking human animation

Meta Reality Labs ***May 2022 - Nov. 2022***
Research Scientist Intern & Student Researcher *Seattle, WA*
- Research in multi-modal (audio-visual) 4D face reconstruction

Behavioral Signal Technologies ***April 2018 - May 2020***
Machine Learning Engineer *Athens, Greece*
- Research in data augmentation and GANs to address data imbalance in the real world
- Developed robust models to recognize emotions and behaviors from speech in various domains and conditions
- Built the training and evaluation pipelines of the company's ML infrastructure

Terabee (CERN spin-off) ***Sept. 2017 - March 2018***
Computer Vision Engineer Intern *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

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

Selected Publications

- **A. Chatziagapi**, G. G. Chrysos, and D. Samaras, "MIGS: Multi-Identity Gaussian Splatting via Tensor Decomposition," in *ECCV*, 2024 **(oral)** [pdf]
- **A. Chatziagapi**, B. Chaudhuri, A. Kumar, R. Ranjan, D. Samaras, and N. Sarafianos, "TalkinNeRF: Animatable Neural Fields for Full-Body Talking Humans," in *ECCVW*, 2024 [pdf]
- **A. Chatziagapi**, G. G. Chrysos, and D. Samaras, "MI-NeRF: Learning a Single NeRF from Multiple Identities," in *ECCVW*, 2024 [pdf]
- **A. Chatziagapi** and D. Samaras, "AVFace: Towards Detailed Audio-Visual 4D Face Reconstruction," in *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," in *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," in *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***
Erasmus Intern Traineeship Program, Switzerland — ***Sept. 2017 - March 2018***
Honors, ranked 1st in math and science courses, I.M. Panagiotopoulos, Greece — ***June 2011***

Extra-Curricular Activities

Volunteer, 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***