Aggelina Chatziagapi

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Education

PhD in Computer Science ***Aug. 2020 - Aug. 2025***
Stony Brook University *New York*
- Thesis: "Multi-Modal 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

Mirage ***Aug. 2025 - Present***
Member of Technical Staff *New York, NY*
- Research in multi-modal (text-to-audio, text-to-video) large-scale foundation diffusion models

Computer Vision Lab, Stony Brook University ***Aug. 2020 - Aug. 2025***
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**, L.-P. Morency, H. Gong, M. Zollhöfer, D. Samaras, and A. Richard, "AVFlow: Transforming Text to Audio-Visual Human-like Interactions," in *ICCV*, 2025 [pdf]
- **A. Chatziagapi**, G. G. Chrysos, and D. Samaras, "MIGS: Multi-Identity Gaussian Splatting via Tensor Decomposition," in *ECCV*, 2024 **(oral, top 2%)** [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

Grant from Amazon Prime Video, Computer Vision Lab, Stony Brook University ***2021 - 2023***
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***

Other Activities

Co-organizer, CVPR 2025 Workshop on Deep Learning Theory [link], TN ***June 2025***
Volunteer, IEEE 2018 Workshop on Spoken Language Technology, Greece ***Dec. 2018***
Deep Learning Specialization, deeplearning.ai, Coursera ***April 2018***