# ANGELIKI TSINOUKA

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## SUMMARY

PhD candidate in Computer Vision and Robotic Perception at the National Technical University of Athens, with an M.Eng. in Electrical and Computer Engineering. My research focuses on deep learning, 3D reconstruction, and 6D pose estimation, with experience in foundation models and computer vision applications.

## EDUCATION

**National Technical University of Athens** September 2026 - Present
PhD Candidate in Computer Vision and Robotic Perception
- Advised by Prof. Petros Maragos

**National Technical University of Athens** September 2019 - 2025
M.Eng. in Electrical and Computer Engineering 8.32/10.0 Current GPA
- Advised by Prof. Petros Maragos
- **Thesis:** Occlusion-Robust Audiovisual Face Reconstruction with Temporal Modeling
- **Key Coursework:** Computer Vision, Natural Language Processing, Pattern Recognition, Robotic Systems I & II

**National Technical University of Athens** September 2017 - June 2019
M.Eng. in Architecture Engineering 2-year attendance

## PUBLICATIONS

- A. Tsinouka, G. Retsinas, P. Maragos, and P. P. Filntisis, "FAVOR: Robust Audio–Visual 4D Face Reconstruction Under Occlusion", WACV 2027
- N. Chatzis, A. Tsinouka, K. Papadimitriou, N. Efthymiou, M. Glytsos, G. Retsinas, P. Oikonomou, G. Potamianos, P. Maragos, and P. P. Filntisis, "Mind the Shape Gap: A Benchmark and Baseline for Deformation-Aware 6D Pose Estimation of Agricultural Produce", IROS 2026

## SKILLS AND INTERESTS

**Technical:** Python, C/ C++, Dashboard, Matlab, Java, SQL, Linux, Bash, AutoCAD, Latex, Microsoft Office
**Frameworks:** PyTorch, TensorFlow, Scikit-Learn, Keras, OpenCV
**Languanges:** Greek (Native), English (Full Working Proficiency, C2), French (Intermediate, B2)

## PROFESSIONAL EXPERIENCE

**HERON Robotics Center Of Excellence, Athens, Greece: PhD Candidate** September 2025 - Present
Working on developing Models for 3D Object Reconstruction.

**Institute of Robotics | Athena RC, Athens, Greece: Machine Learning Scientist** March 2025 - August 2026
Working on developing Foundation Models for 6d Pose Estimation.

**IIS | NCSR Demokritos, Athens, Greece: Data Science Intern** June 2024 – July 2024
Contributed to the MagCIL under the supervision of Thodoris Giannakopoulos. My work involved a project focused on the automatic characterization of audio recordings from urban outdoor spaces with regard to soundscape quality.
- Prepared and processed data, and created a dashboard application for data visualization.
- Explored and applied deep learning and transfer learning methods to automatically assess soundscape quality.

## ACADEMIC PROJECTS

**Rule-based Image Transformation using Neural Production System on MNIST Dataset** Fall 2023 – Spring 2024
Collaborated in a team of 4 to reproduce and make extensions of the concepts in the paper 'Neural Production Systems: Learning Rule-Governed Visual Dynamics' (Anirudh Goyal et al., 2022).

**Computer Vision and Pattern Recognition Applications** Fall 2022- Spring 2024
- Digit Speech Recognition using the MFCCS for feature extraction, ML algorithms and LSTM.
- Music Genre recognition using spectogram and chromogram for feature extraction and LSTM model.
- Sentiment analysis applying CNN and LSTM, use of Transfer Learning and Multitasking methods.
- Image and Video classification using the BoVW method for feature extraction and SVM classification.
- Face and hands tracking using optical flow estimation with the Lucas-Kanade method.