Evangelos Chatzipantazis

PhD Student

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RESEARCH INTERESTS

Geometric Deep Learning, Equivariant representations, Optimization on Manifolds, Generative Models, Differential Geometry, AI for Science and Engineering

EDUCATION

University Of Pennsylvania **Sep 2018-**

- **PhD** in Computer and Information Science
  - Specialization: Geometric Deep Learning, Computer Vision
  - Advisor: Kostas Daniilidis
- **Master** in Statistics and Data Science (Wharton) **Jan 2023-**
  - **Current GPA**: 4.00/4.00
  - Relevant Coursework: Statistical Machine Learning, High-dimensional Statistics, Time-Series Forecasting, Stochastic Processes, Conformal Prediction
- **MSE** in Robotics (GRASP Laboratory) **Dec 2022**
  - **GPA**: 4.00/4.00
  - Relevant Coursework: Convex Optimization, Learning in Robotics, Machine Perception, Advanced Machine Perception, Principles of Deep Learning, Theory of Computation

National Technical University of Athens (NTUA), Greece **Sep 2012- Sep 2018**

- **BSc & MSc** in Electrical and Computer Engineering (5-year joint degree; 300 ECTS)
  - **GPA**: 9.58/10.0 (top 1% among graduate class of 341 students; highest honors)
  - **Major GPA**: 9.64/10.0 (top 1%) Specialization: Computer Science
  - Relevant Coursework: Computer Vision, Stochastic Processes, Pattern Recognition, Deep Learning, Advanced Algorithms, Algorithmic Machine Learning, Spectral Graph Theory, Social Network Analysis
  - Thesis:*"Spectral Graph Methods with Applications in Computer Vision"* Advisor: Dr. Petros Maragos, Professor

HONORS &AWARDS

- Outstanding Paper Award in Multi-Robot Systems, ICRA 2023.
- Gerondelis Foundation Graduate Scholarship (to support Ph.D. Studies) in the year 2022-2023.
- Thomaideion Award (highest grade among all students of Electrical and Computer Engineering) in academic years 2015-2016 and 2017-2018
- Kritikos Award (highest grade in all courses of Mathematics among fellow students for the academic year 2016-2017).
- Papakyriakopoulos Award (highest grade in all courses of Mathematics among fellow students for years 2015-2016).

RESEARCH

- E.Chatzipantazis*, S.Pertigkiozoglou*, K.Daniilidis. Robust Point Cloud Registration via Equivariant Representations. (Under Review)
- E.Chatzipantazis*, S.Pertigkiozoglou*, E.Dobriban, K.Daniilidis. SE(3)-Equivariant Attention Networks for Shape Reconstruction in Function Space. ICLR **2023**
- M.Tzes, N.Bousias, E.Chatzipantazis, G.Pappas. Graph Neural Networks for Multi-Robot Active Information Acquisition. **(Outstanding Paper Award in Multi-Robot Systems)** ICRA **2023**
- E.Chatzipantazis*, S.Pertigkiozoglou*, K.Daniilidis, E.Dobriban. Learning Augmentation Distributions Using Transformed Risk Minimization. TMLR **2023**
- K.Chaney*, B.Bucher*, E.Chatzipantazis, J.Shi, K.Daniilidis. Unsupervised Monocular Depth and Latent Structure. CVPR Workshop on 3D Scene Understanding for Vision and Robotics, **2019**

ACADEMIC SERVICE

- ML Conference Reviewer: ICML 2022, ICML 2023, NeurIPS 2022, ICCV 2023
- Teaching Assistant, "ESE650: Learning In Robotics" under *Dr. Kostas Daniilidis* **2019**
- Teaching Assistant, "CIS680: Advanced Machine Perception" under *Dr. Jianbo Shi* (Website) **2019**
- Teaching Assistant, "ESE546: Principles of Deep Learning", *Dr. Pratik Chaudhari* (Class Notes (Co-authored)) **2019**, **2020**
- Lab Assistant,"Introduction to Computer Programming", under *Prof. N.Papaspyrou*. **2014- 2015**
- Research Assistant in Computer Vision and Signal Processing Lab (CVSP): Implementation of spectral algorithms for image segmentation, under *Prof P.Maragos*. **2017**

LANGUAGES **Greek**: Native language. **English**: fluent. **French**: novice

TECHNICAL SKILLS

- **Programming Languages**
  - Current Frequent Use: Python
  - Past Frequent Use: C, C++, Java, Prolog, SMLNJ, MATLAB, HTML5, Javascript, PHP, mySQL
- **Other Programming Skills**
  - PyTorch, Parallel & GPU Programming , Github, LaTeX, Unix Kernel programming, bash scripting

OTHER INTERESTS Competitive Swimming (7 years), Water Polo (3 years), Tennis (3 years), Guitar(self-taught)