Nikolaos-Antonios Ypsilantis

Contact Information

e-mail: ypsilnik@fel.cvut.cz

Address: Karlovo namesti 13, 121 35 Praha 2, Czech Republic,
Office G3 (building G, room 3).

LinkedIn: [link] , **GitHub:** [link] , **Google Scholar:** [link] ,

Personal Website: [link]

Research Interests

Computer Vision, Deep Learning

Education

Czech Technical University in Prague (CTU) *May. 2022 – present*
Ph.D. Student at the Visual Recognition Group (VRG), Department of Cybernetics, Faculty of Electrical Engineering, under the supervision of Prof. Ondrej Chum
- Topic: Large-scale visual recognition

National Technical University of Athens *Oct. 2016 – Feb. 2022*
Diploma (5 year joint Master's degree, 300 ECTS) in **Electrical & Computer Engineering (ECE)**
- *Average Grade:* 8.53/10
- *Major:* Computer Science
- *Specialization:* Deep Learning, Computer Vision, Natural Language Processing

Research Experience

Czech Technical University in Prague (CTU) *Feb. 2021 - Apr. 2022*
Research intern at the Visual Recognition Group (VRG), Department of Cybernetics, Faculty of Electrical Engineering, under the supervision of Assist. Prof. Giorgos Tolias
- Focused on Instance-level Recognition (ILR) task using Deep CNNs
- Involved in the development of a large scale dataset and benchmark for ILR on artworks
- Research on Representation Learning using Deep Metric Learning and Self-Supervised Learning

Other Research Experience

Vision and Sports Summer School [link] *July 2022*
Attended Vision and Sports summer school in Prague, Czech Republic.

Teaching Experience

Programming Essentials (CTU [link]**)** *Sept. 2022 - present*
Lab teacher of introduction to programming with Python, also responsible for homework grading. Course is compulsory in the Bachelor's EECS program and is taught in English.

Publications

Nikolaos-Antonios Ypsilantis, Noa Garcia, Guangxing Han, Sarah Ibrahimi, Nanne Van Noord, Giorgos Tolias : *"The Met Dataset: Instance-level Recognition for Artworks"* [link]
Proceedings of **NeurIPS 2021 Track on Datasets and Benchmarks**

Talks

4th Instance-Level Recognition Workshop (ICCV 2021) *Oct. 2021*
Presented the Met dataset [link]

Technical Skills

Programming Languages	Python, C/C++
Machine/Deep Learning Frameworks	PyTorch, scikit-learn
Data Analysis and Visualization	NumPy, SciPy, matplotlib, pandas
Scientific Programming	MATLAB, GNU Octave
Computer Vision Frameworks	OpenCV, scikit-image
Databases	MySQL
Version Control	Git
Typesetting	LaTeX
Operating Systems	Linux, Windows

Projects

Optional summer project for the DSP course at ECE NTUA *2019*
Worked on analysing and implementing the algorithm described in: *M. Aharon, M. Elad and A. Bruckstein, "K-SVD: An algorithm for designing overcomplete dictionaries for sparse representation".*

Seminars Attended

International Particle Physics Outreach Group *Mar. 2016*
Masterclass on particle physics for highschool students

Languages

Greek(Native)

English(Fluent)

- *University of Cambridge* *Dec. 2013*
  Certificate of Proficiency in English
  C2 Proficiency
- *University of Michigan* *Nov. 2013*
  Certificate of Proficiency in English
  C2 level

German(Basic)

- *Goethe Insitut* *Mar. 2015*
  Goethe-Zertifikat B1

Hobbies

Travelling, Table Tennis, Nature Exploration

References

Ondrej Chum [link], Giorgos Tolias [link]