

Nikolaos-Antonios Ypsilantis

CONTACT INFORMATION

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LinkedIn: [\[link\]](#) , **GitHub:** [\[link\]](#) , **Google Scholar:** [\[link\]](#) ,

Personal Website: [\[link\]](#)

RESEARCH INTERESTS

Large Scale Visual Recognition, Image Representation Learning, 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
– Topic: **Scalable representations for universal visual recognition**
– Supervisor: Prof. Ondrej Chum

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

PROFESSIONAL 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

SCHOOL - WORKSHOPS - CONFERENCES (ATTENDED)

27th Computer Vision Winter Workshop (CVWW) [\[link\]](#) *Feb. 2024*
Annual meeting of several computer vision research groups located in Graz, Ljubljana,
Prague, and Vienna. Took place in Terme Olimia, Slovenia.

International Conference on Computer Vision (ICCV) [\[link\]](#) *Oct. 2023*
Premier international computer vision event comprising the main conference and several co-located workshops and tutorials. Took place in Paris, France.

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

REVIEWING EXPERIENCE

Served as reviewer for the following conferences-journals.
– *International Journal of Computer Vision (IJCV)*
– *Computer Vision and Pattern Recognition Conference (CVPR)*

TEACHING EXPERIENCE

Programming Essentials (CTU) [\[link\]](#) *Sept. 2022 - Feb. 2022*
Lab teacher of introduction to programming with Python, also responsible for home-

	work grading. Course is compulsory in the Bachelor's EECS program and is taught in English.	
PUBLICATIONS	<p>Nikolaos-Antonios Ypsilantis, Kaifeng Chen, Bingyi Cao, Mário Lipovský, Pelin Dogan-Schönberger, Grzegorz Makosa, Boris Bluntschli, Mojtaba Seyedhosseini, Ondřej Chum, André Araujo : “Towards Universal Image Embeddings: A Large-Scale Dataset and Challenge for Generic Image Representations” [link] Proceedings of International Conference on Computer Vision (ICCV) 2023</p> <p>Nikolaos-Antonios Ypsilantis, Noa Garcia, Guangxing Han, Sarah Ibrahimi, Nanne Van Noord, Giorgos Tolias : “The Met Dataset: Instance-level Recognition for Artwork” [link] Proceedings of NeurIPS 2021, Track on Datasets and Benchmarks</p>	
INVITED TALKS	<p>Computer Vision Winter Workshop (CVWW) 2024 Presented work on improving large-scale sketch classification with co-segmentation.</p> <p>4th Instance-Level Recognition Workshop (ICCV 2021) Presented the Met dataset [link]</p>	<p><i>Feb. 2024</i></p> <p><i>Oct. 2021</i></p>
TECHNICAL SKILLS	<p>Programming Languages Machine/Deep Learning Frameworks Data Analysis and Visualization Scientific Programming Computer Vision Frameworks Databases Version Control Typesetting Operating Systems</p>	<p>Python, C/C++ PyTorch, Jax/Flax, scikit-learn NumPy, SciPy, matplotlib, pandas MATLAB, GNU Octave OpenCV, scikit-image MySQL Git LaTeX Linux, Windows</p>
PROJECTS	<p>Optional summer project for the DSP course at ECE NTUA Worked on analysing and implementing the algorithm described in: <i>M. Aharon, M. Elad and A. Bruckstein, "K-SVD: An algorithm for designing overcomplete dictionaries for sparse representation"</i>.</p>	
SEMINARS ATTENDED	<p>International Particle Physics Outreach Group Masterclass on particle physics for highschool students</p>	<i>Mar. 2016</i>
LANGUAGES	<p>Greek(Native)</p> <p>English(Fluent)</p> <ul style="list-style-type: none"> – <i>University of Cambridge</i> Certificate of Proficiency in English C2 Proficiency – <i>University of Michigan</i> Certificate of Proficiency in English C2 level <p>German(Basic)</p> <ul style="list-style-type: none"> – <i>Goethe Insitut</i> Goethe-Zertifikat B1 	
		<p><i>Dec. 2013</i></p> <p><i>Nov. 2013</i></p> <p><i>Mar. 2015</i></p>
HOBBIES	Travelling, Table Tennis, Nature Exploration	

REFERENCES

Ondrej Chum [\[link\]](#), Giorgos Tolias [\[link\]](#)