

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 Retrieval, Fine-grained Recognition

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)

May. 2022 – present

Researcher at the Visual Recognition Group (VRG), Department of Cybernetics,
Faculty of Electrical Engineering.

- Research focus on developing scalable image representations for fine-grained and instance-level retrieval across multiple domains.
- Collaborated with an industrial researcher (Google Research) to develop an academic benchmark for the evaluation of Universal Image Embeddings, leading to a publication at the International Conference on Computer Vision (ICCV) 2023.

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 CNNs and Deep Metric learning.
- Involved in the development of a large scale dataset and benchmark for ILR on artworks, collaborating with a team of international researchers.

PUBLICATIONS

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**.

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**.

ACADEMIC SERVICE	Served as reviewer for the following conferences-journals. <ul style="list-style-type: none"> – <i>International Journal of Computer Vision (IJCV)</i> – <i>Computer Vision and Pattern Recognition Conference (CVPR)</i> – <i>European Conference on Computer Vision (ECCV)</i> 	
TEACHING EXPERIENCE	Programming Essentials (CTU [link])	<i>Sept. 2022 - Feb. 2022</i>
	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.	
INVITED TALKS	Computer Vision Winter Workshop (CVWW) 2024	<i>Feb. 2024</i>
	Presented work on improving large-scale sketch classification with co-segmentation.	
	4th Instance-Level Recognition Workshop (ICCV 2021)	<i>Oct. 2021</i>
	Presented the Met dataset [link]	
TECHNICAL SKILLS	Programming Languages Machine/Deep Learning Frameworks Data Analysis and Visualization Scientific Programming Computer Vision Frameworks Version Control Typesetting Operating Systems	Python, C/C++ PyTorch, Jax/Flax, scikit-learn NumPy, SciPy, matplotlib, pandas MATLAB, GNU Octave OpenCV, scikit-image Git LaTeX Linux, Windows
SCHOOL - WORKSHOPS - CONFERENCES (ATTENDED)	27th Computer Vision Winter Workshop (CVWW) [link]	<i>Feb. 2024</i>
	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]	<i>Oct. 2023</i>
	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]	<i>July 2022</i>
	Attended Vision and Sports summer school in Prague, Czech Republic.	
LANGUAGES	Greek(Native)	
	English(Fluent)	
	– <i>University of Cambridge</i> Certificate of Proficiency in English C2 Proficiency	<i>Dec. 2013</i>
	– <i>University of Michigan</i> Certificate of Proficiency in English C2 level	<i>Nov. 2013</i>
	German(Basic)	
	– <i>Goethe Insitut</i> Goethe-Zertifikat B1	<i>Mar. 2015</i>
HOBBIES	Travelling, Table Tennis	
REFERENCES	Ondrej Chum [link] , Giorgos Tolias [link]	