NIKOLAOS IOANNIS BOUNTOS

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GitHub: https://github.com/ngbountos

EDUCATION

Technical University of Munich *February 2020*
MSc: Data Engineering and Analytics
Aristotle University of Thessaloniki *September 2016*
BSc: Computer Science

Publications:

- Bountos, Nikolaos Ioannis, et al. "Self-supervised contrastive learning for volcanic unrest detection." IEEE Geoscience and Remote Sensing Letters 19 (2021): 1-5.
- Bountos, Nikolaos Ioannis, Dimitrios Michail, and Ioannis Papoutsis. "Learning from Synthetic InSAR with Vision Transformers: The case of volcanic unrest detection." IEEE Transactions on Geoscience and Remote Sensing (2022).
- Bountos, Nikolaos Ioannis, et al. "Hephaestus: A large scale multitask dataset towards InSAR understanding." Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition. 2022.
- Papoutsis, Ioannis, et al. "Benchmarking and scaling of deep learning models for land cover image classification." ISPRS Journal of Photogrammetry and Remote Sensing 195 (2023): 250-268.
- Prapas Ioannis, et.al. "TeleViT: Teleconnection-driven Transformers Improve Subseasonal to Seasonal Wildfire Forecasting", ICCV 2023, HADR-AI.
- Bountos, Nikolaos Ioannis, et al. "Kuro Siwo: 12.1 billion m^2 under the water. A global multi-temporal satellite dataset for rapid flood mapping." arXiv preprint arXiv:2311.12056 (2023).
- Bountos, Nikolaos Ioannis, Arthur Ouaknine, and David Rolnick. "FoMo-Bench: a multi-modal, multi-scale and multi-task Forest Monitoring Benchmark for remote sensing foundation models." arXiv preprint arXiv:2312.10114 (2023).

AWARDS/SCHOLARSHIPS

- **Best Paper Award** at the **ICCV 2023 AI + HADR** workshop for our paper **TeleViT: Teleconnection-driven Transformers Improve Subseasonal to Seasonal Wildfire Forecasting**.
- **International Research Center on Artificial Intelligence under the auspices of UNESCO Global Top 100 list 2022-23** for the project: **Pluto - A global volcanic unrest early warning system**, rated as **Excellent**.
- **Beyond Fellow Scholarship** of the AI4EO Future Lab of the Technical University of Munich
- **European Union Agency for the Space Program - Cassini Challenge**: winner of the idea track

WORK EXPERIENCE

Position	**Institute/Company**	**Time Period**
Research Intern	Mila - Quebec AI Institute	April 2023 - November 2023
Beyond Fellow, Visiting Researcher	AI4EO Future Lab, TU Munich	September 2022 - December 2022
AI Researcher/ PhD Candidate	National Observatory of Athens	January 2021 - Present
Artificial Intelligence Engineer	Motius	December 2019 - April 2020
Master Thesis on Computer Vision	Esri Deutschland	April 2019 - September 2019
Working Student Data Analytics	KPIT	July 2018 - February 2019
Working Student Data Scientist	Trillr.com	October 2017 - January 2018
Web Developer	Newte	December 2016 - April 2017