

NIKOLAOS IOANNIS BOUNTOS

Athens, Greece

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GitHub: <https://github.com/ngbountos>

EDUCATION

Technical University of Munich

MSc: Data Engineering and Analytics

February 2020

Aristotle University of Thessaloniki

BSc: Computer Science

September 2016

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: 33 billion m^2 under the water. A global multi-temporal satellite dataset for rapid flood mapping." *NeurIPS 2024, Datasets and Benchmarks track*.
- Bountos, Nikolaos Ioannis, Arthur Ouaknine, Ioannis Papoutsis 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* (2024).
- Michail et.al "Seasonal Fire Prediction using Spatio-Temporal Deep Neural Networks" *arXiv preprint arXiv:2404.06437* (2024)

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 - Nov. 2023
Beyond Fellow, Visiting Researcher	AI4EO Future Lab, TU Munich	Sept. 2022 - Dec. 2022
AI Researcher/ PhD Candidate	Orion Lab, National Observatory of Athens & National Technical University of Athens	Jan. 2021 - Present
Artificial Intelligence Engineer	Motius	Dec. 2019 - Apr. 2020
Master Thesis on Computer Vision	Esri Deutschland	Apr. 2019 - Sept. 2019
Working Student Data Analytics	KPIT	July 2018 - Febr. 2019
Working Student Data Scientist	Trillr.com	Oct. 2017 - Jan. 2018
Web Developer	Newte	Dec. 2016 - Apr. 2017