Anastasis Katsos

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WORK EXPERIENCE

Orion Lab, National Technical University of Athens **Jun. 2024 – Present**
Researcher *Athens, Greece*

- Research Focus: Domain Adaptation and Multi-Modal Fusion in Deep Learning for Remote Sensing Applications
- Study distribution shifts across different domains and downstream tasks
- Investigation of methods to enhance model robustness across different spatio-temporal domains

Beyond EO Center, National Observatory of Athens **Jul. 2019 – May. 2024**
Technical Team Leader *Athens, Greece*

- Technical Team Leader of the Copernicus Sentinel Hubs in Greece. Continuous monitoring of a large infrastructure (>100 VMs, >1PB storage) and root cause analysis of system issues. Implementation of corrective actions and documentation. Coordination of the team for daily activities and task assignments.
  - **Stack:** Linux (Debian), Ansible, Python, Bash, PostgreSQL, Solr, Haproxy, TIG Stack, Git
- Development of a fully automated system for the reception, processing and dissemination of remote sensing data (>5TB each month) from eight polar-orbiting earth-observation satellites.
  - **Stack**: Linux (Debian), PostgreSQL, GDAL, Django, Nginx
- Development of a fully automated system performing diachronic mapping of water bodies in selected river basins using satellite data. The produced digital maps are available freely to the end users.
  - **Stack**: Linux (Debian), ESA SNAP, PyTorch, Django, GeoServer, Nginx

EDUCATION

National Technical University of Athens,
School of Rural, Surveying and Geoinformatics Engineering **Present**
PhD Candidate *Athens, Greece*

- **Research Focus**: Domain Adaptation and Generalization in Deep Learning for Remote Sensing Applications

National Technical University of Athens,
School of Rural, Surveying and Geoinformatics Engineering **Oct. 2022**
MSc in Geoinformatics *Athens, Greece*

- **Thesis:** Automated water detection system using Sentinel-1 satellite data

Harokopio University of Athens,
School of Digital Technology **Jul. 2020**
BSc in Informatics and Telematics *Athens, Greece*

- **Thesis:** System Creation for Automated Reception and Process of Automatic Picture Transmission Signals from NOAA POES Satellites and Database Storing for Web-Based View

CERTIFICATIONS, SKILLS & INTERESTS

- **Languages:** English – C2 Proficiency (Michigan ECPE), French – A2 (DELF)
- **Interests:** Music (Drums), Amateur Astronomy, Astrophotography