



# Eduard Kazakov

Specialist in GIS and Earth remote sensing  
Cartographer, Researcher

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## Key technical skills:

- Deep expertise in [QGIS](#), [GRASS](#), [SAGA](#) software. Basic expertise in [ArcGIS](#) ecosystem.
- [Python](#) for geospatial data processing and automation. NumPy, SciPy, [GDAL/OGR](#), matplotlib, scikit-learn, pandas.
- Topographic and thematic [mapping](#). From data collection to map design.
- [Hydrologic](#), [geomorphometric](#), [urban](#) analysis in GIS.
- [Web GIS](#) technologies and standards.
- [Remote sensing](#) data processing with toolboxes (ENVI, SNAP, Metashape, OpenDroneMap, Google Earth Engine) and python code.
- Geodata management with [PostgreSQL/PostGIS](#).
- [Solving computer problems](#) and basics of server administration (Unix, Windows). Git, bash, docker.

## Key non-technical skills:

- Scientific and technical writing
- Lecturing and presentations

Experienced professional in Geoinformatics, Cartography and Earth remote sensing with scientific background. Contributor and popularizer of open-source geospatial software, especially QGIS. Environmental science, GIS and maps lover.

Wide experience of geospatial technologies mastering in different areas (from water resources management to archaeology, from climatology to urban studies) gives me an opportunity to look at any geographic problem from different angles and to use multidisciplinary approaches.

## Saint Petersburg State University

2009 - 2014

Geoinformatics  
(diploma with honors)

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## Kontur.io

2022.07 - present

Geospatial Data Engineer

## NextGIS LLC

2021.01 - 2022.04

Director of educational programs

*Designing and conducting educational courses on NextGIS Software, QGIS, GRASS/SAGA, Python for geographical problems. GIS trainings, webinars, consulting*

2019.02 - 2021.01

Software developer, GIS Analyst

*Developing QGIS plugins and python scripts for geospatial data processing. Mapping, GIS analysis, creating tutorials*

- Scientific literature interpretation/generalization

Also about me:

- Best pastime: family, hiking, reading.
- Community and knowledge sharing enthusiast.
- Russian (native)
- English (professional working proficiency)

## Russian State Hydrological Institute

2019.02 - 2021.01

Head of geoinformatics group,  
Researcher

*Managing group of engineers and scientists in the field of GIS for water resources management and hydrological modeling. Scientific research, GIS analysis, mapping, software development (python)*

## Nansen International Environmental and Remote Sensing Center

2017.08 - 2019.01

Researcher

2016.03 - 2017.08

Junior researcher

*Scientific research (remote sensing, GIS, climate, oceanology). Developing an applied automated monitoring system of sea ice based on radar remote sensing data.*

## Saint Petersburg State University

2014.09 - 2017.08

Lecturer

*Designing and conducting educational courses on cartography, GIS, remote sensing, photogrammetry and geodesy. Supervising students' projects.*

Some projects: <https://eduard-kazakov.github.io/projects>

Code: <https://github.com/eduard-kazakov>

Scientific papers: <https://scholar.google.com/citations?user=kUaRzT4AAAAAJ>

LinkedIn: <https://www.linkedin.com/in/eduard-kazakov-gis>

## Keywords

Geoinformatics Earth remote sensing Spatial analysis Spatial data Cartography Software development  
Lecturing Scientific research Environmental monitoring Team management Project management QGIS  
GRASS SAGA ArcGIS MapInfo NextGIS Web Google Earth Engine Field data collecting QField  
NextGIS Collector Geodesy Photogrammetry UAV Statistics Machine learning ENVI Agisoft Metashape  
OpenDroneMap OpenStreetMap SQL PostGIS Python GDAL/OGR matplotlib pandas scikit-learn numpy  
Docker JavaScript Git Bash Linux/Unix Solving computer problems PyQt OGC standards Sentinel Landsat  
MODIS VIIRS SAR Geomorphometric analysis of DEMs Hydrologic analysis of DEMs Network analysis Potree  
Automation Copernicus data and services