

Sofya Garipova

Geomorphology, spatial analysis, mapping, remote sensing, geodatabases, geostatistics, Quaternary geology

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Visit my web-site for more: garipovasonya.github.io

Work experience

Academic

Geological Institute of Russian Academy of Sciences
2020 - present, junior researcher, 100%

provisioning of Active Faults Eurasia Database;
active faults **mapping**, **remote sensing**, photogrammetry,
high-quality 3D models (Agisoft Metashape, Pix4D),
UAV survey (DJI Phantom 4 Pro, Mini SE, Mini 2),
GNSS survey;
spatial analysis in ArcGIS, QGIS;
python for statistical data analysis, time-series analysis,
spectral analysis by multitaper method;
Bayesian age-depth modelling (OxCal);
python for 3D geological modelling (gempy);
R for statistical data analysis;
field geological and geomorphological investigation.

Non-academic

TINGIDIS,
2022, freelancer, middle hydrogeologist

water disposal system engineering (**feasibility study**), drainage projects;
reports on ground and groundwater pollution elimination in chemical plant area;
statistical analysis of groundwater migration, **mapping**;
spatial analysis (QGIS, ArcGIS, SAGA GIS).

RusHydro (Hydroproject),
2018 - 2019, junior engineer, 50%

numerical modelling of groundwater flow (Feflow software) for
hydropower plant construction: Rogun HPP, Saratov HPP;
simulation of drainage projects to reduce groundwater flooding.

HYDEC,
2017 - 2018, hydrogeologist, 50%

regression analysis of hydraulic data to predict hydraulic head values
in 25 years prospective;
analysis of pumping tests.



Education

Moscow State University
2014 - 2018

Master's with Honours
(Geology - Hydrogeology and
engineering geology)
Average grade 4.8/5

Moscow State University
2018 - 2020

Bachelor's with Honours
(Geology)
Average grade 4.8/5

Skills

GIS Software: ArcGIS (Desktop, Pro), QGIS, Google Earth

Photogrammetry:
Agisoft Metashape, Pix4D;
UAV survey;
GNSS;
leaflet.js, mapbox;
SQL.

Python for data and geodata
analysis (numpy, scipy, pandas,
scikit-learn, matplotlib, gdal,
gempy);
R for statistics.

HTML5, CSS3, basic javascript

Graphics:
Adobe Photoshop, Illustrator,
After Effects, Figma, CorelDraw.

MS Office, Prezi.

Languages

English - proficiency
Russian - native
German - elementary