

## **Svetlana Gantimurova**

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## **SUMMARY**

Responsible and highly motivated GIS and remote sensing scientist with knowledge of geospatial analysis and earth observation data processing, and strong skills in cartography and graphic design.

## **WORK EXPERIENCE**

**2020-2021** Siberian School of Geosciences, Irkutsk, Russia

Position – GIS engineer

Responsibilities: advanced satellite image processing, land cover mapping and related accuracy assessment; time-series analysis; land use optimization and allocation model design; participatory environmental risk assessment; spatial decision support model design; web-based mapping application deployment; program reporting, monitoring and evaluation.

**2016-2017** The Institute of Geography of the Russian Academy of Sciences, Irkutsk, Russia

Position – Cartographer

Member of team project – «Atlas of specially protected natural areas of the Far East region and Yakutia»

Responsibilities: analysis of surveying data and satellite images; spatial data processing using MapInfo software; converting existing physical maps into a digital form; creating "shapefiles" to merge topographical data with external data by layering external data over a topographical map; landscape maps design.

**2015** Baikal Institute of Nature Management, Ulan-Ude, Russia

Position – Researcher

Project granted by the Russian Academy of sciences – «Development and use of a geoinformation cartographic model for a comprehensive analysis and assessment of the ecological state of geotechnical systems».

Responsibilities: data collection and analysis, including ground surveying; producing maps showing the spatial distribution of anthropogenic transformation patterns; identification of environmental changes and trends through spatial and temporal analysis; writing scientific reports.

## **KEY PROJECTS**

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**2021** GIS-based landslide susceptibility mapping of The Circum-Baikal Railway in Russia using UAV data.

The aim of the study: detection and forecasting of potential landslide areas using the data obtained from UAVs.

As a part of the project, some appropriate techniques were selected, and landslide susceptibility map of the study site was developed/compiled. The outcomes of the applied indirect heuristic approach of landslide susceptibility assessment using analytical hierarchy process in a GIS environment, based on UAV data, were published in a peer-reviewed journal.

**2020** Using NDVI to identify climate change trends in Cambodia

A thesis submitted for the Master degree in Geographic Information Science at the University of Queensland in 2020.

Aim: To examine the NDVI trends derived from remote sensing data using GIS, and to define whether this approach can assist in better understanding of climate change trends.

Methods: This project explored the changes in NDVI data as a proxy indicator of climate change and analysed land change (2001-2019). Spatial and temporal patterns in NDVI derived from MODIS from 2001 to 2019 at the province and district scale in Cambodia were examined.

## **EDUCATION**

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**2018-2020** **The University of Queensland, Australia**

Master of Geographic Information Science

**2014-2017** **The Institute of Geography, Irkutsk, Russia**

Postgraduate study in Cartography

**2006-2012** **Irkutsk State University, Russia**

Bachelor of Natural Resource Management and Environmental Planning

## **TECHNICAL SKILLS**

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- MS Office (Word, Excel, Outlook, PowerPoint)
- Graphic Design software (CorelDraw, Adobe Illustrator)
- GIS software (ESRI ArcGIS, MapInfo, ENVI)
- SQL, Python

## **PROFESSIONAL COMPETENCES**

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Geographic information systems; Spatial data analysis; Cartography and Graphic Design; Earth remote sensing data processing and image decoding; Database design, data entry and transformation; Knowledge of international standards in the field of GIS and ERS.