



# Edah Šahinović

## Geoinformatician

I am a dedicated Master's student in Applied Geoinformatics with a solid foundation in cartography, spatial analysis and WebGIS development. In addition to my studies, with one year of internship experience in cartography and additional work as a student assistant, I have developed proficiency in various geospatial tools and technologies, including Geographic Information Systems (e.g., cartography, spatial analysis, spatial statistics), Python scripting (e.g., ArcPy), JavaScript (OpenLayers), spatial databases (PostgreSQL), and remote sensing (e.g., eCognition). My academic journey has also raised my research abilities, allowing me to excel in investigating, designing and conducting geospatial research projects.

## Contact

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## Education

2021 - present

**MSc Applied Geoinformatics**

University of Salzburg

2013 - 2018

**BSc Tourism and Environmental**

**Protection**

University of Sarajevo

## Skills

- Geographic Information Systems (GIS) (ArcMap, ArcGIS Pro, QGIS)
- Remote sensing (eCognition, Metashape)
- Python (Streamlit, Flask, ArcPy, Matplotlib, OWSLib, Requests, Rasterio, Geopandas, Sqlite, workflow automation)
- JavaScript (OpenLayers, Leaflet)
- PostgreSQL (pgAdmin 4)
- Geospatial servers (ESRI Geoportal, Geoserver)
- Adobe Illustrator, InDesign
- Enterprise Resource Planning (Dolibarr)
- Microsoft Excel
- Tableau

## Certificates

Python for Beginners

EsriAcad: Scripting with Python and R

MOOC: Spatial Analysis

Udemy: ArcGIS Desktop for Spatial Analysis

## Experience

### December 2023 - PRESENT

Z\_GIS - Department of Geoinformatics I Salzburg

#### Project Staff

- Assisting in defining and implementing Earth Observation topics within the Environmental, Social and Governance framework;
- Conducting comprehensive research of satellite technology, exploring its potential applications and contributions towards defined ESG topics.
- Scripting with Python to automate geospatial workflows, including performing OpenStreetMap API retrievals.

### October 2022 - April 2023

Z\_GIS - Department of Geoinformatics I Salzburg

#### Student Assistant

- Developed two user-friendly, web-based applications using Streamlit to facilitate the analysis of biostatistical data collected from wearable devices;
- Integrated existing algorithms with Python tools such as Pandas, Geopandas, Sqlite, and Matplotlib, automating data transformation, processing and visualization;
- Incorporated and presented complex statistical insights through clear, interactive charts and dynamic maps, fostering deeper understanding and informed decision-making;
- Collaborated closely with a leading professor in the field, showcasing my commitment to teamwork, adaptability, and delivering credible results.

### December 2021 - October 2022

Checklens I Salzburg

#### Supply Chain Assistant

- Performed all stages of functions in moving products from suppliers to retail outlets;
- Assembled, tested and documented quality of components/products prior to arranging dispatches;
- Carried out warehouse physical stock checks side by side with ERP update and maintenance;
- Conducted assembly and testing of products intended for customers and internal needs of the company, ensuring functionality and quality by documenting testing procedures and results.

### June 2020 - December 2020

Printmania I Sarajevo

#### Supply Production Assistant and Data Analyst

- Assisted in the production of t-shirts by operating printing equipment and ensuring high-quality prints;
- Collaborated with the production team to fulfill orders, including following requests as per customer specifications;
- Ensured proper maintenance of printing equipment to achieve consistent print quality;
- Organized and analyzed sales data, providing valuable insights to achieve meeting KPIs;
- Improved data collection processes, ensuring data accuracy and consistency.

# Languages

Serbo-Croatian - Native

English - C1

German - B1

# Interests

- Cycling
- Hiking
- Airsoft
- Cooking
- Travel
- Psychology
- Astronomy

## May 2019 - May 2020

BNpro I Sarajevo

### Intern Cartographer

- Acquired open-source and digitized geospatial data to design thematic and statistical cartography;
- Collaborated with senior GIS technicians to collect geospatial datasets in projects for corporate and government clients;
- Designed and wrote for travel brochures;
- Operated plotters to print and assembled wall maps.

## November 2017 - January 2018

Gaudi LCC I Sarajevo

### Professional practice

- Participation in creating and designing tourist arrangements;
- Project proponent and team coordinator in database collection related to planning, development and better decision-making process for tourist arrangements.

## July 2017 - March 2019

Independent I Sarajevo

### Freelance Cartographer

- Undertaken freelance cartography projects encompassing the creation of static tourist maps featured in brochures, alongside the development of an interactive map using HTML5 code for online platform;

# Noteworthy Projects

Applied Geoinformatics I PLUS

## ParcellInsights

- Developed a web-based geospatial platform to automatically generate PDF reports on environmental conditions based on user-requested parcel data;
- Utilized open-source technologies, including OGC Web Services and Python libraries (OWSLib, Rasterio, Geopandas, ReportLab) to avoid reliance on proprietary software and promote transparency, collaboration and accessibility;
- Published OGC Web Services to enable the sharing and access of geospatial data over the internet and employed geospatial data processing techniques, extracting valuable information from geospatial datasets and presenting it in forms of maps, informative tables and descriptive text reports per environmental condition;
- Leveraged Python's Flask web framework and geospatial libraries to automate the extraction, processing and visualization of geospatial data.

## Toolbox for automating the suitability analysis workflow for selection of the location of residence

- Developed an ArcGIS toolbox for a multicriteria spatial analysis method focused on evaluating dwellings in Salzburg based on environmental and service factors;
- Purpose in assisting residence seekers and homebuyers in selecting most suitable dwellings based on personal criteria;
- Implemented a Python script using ArcPy for data processing and analysis;
- The tool generates a building layer reflecting suitable dwellings based on selected criteria;