

## PERSONAL INFORMATION




## Dipl.-Ing Nikola Janković

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 [GitHub github.com/jankovicgd](https://github.com/jankovicgd)

**Gender** Male | **Date of birth** 27 June 1992 | **Nationality** Serbian

## WORK EXPERIENCE

01.02.2021 - current

## Geospatial IT Engineer

EOX IT Services GmbH  
Thurngasse 8/4, Vienna (Austria)

- PRISM View Server - Copernicus Contributing Missions access Support Functions and Platform
- EOEPKA - EO Exploitation Platform Common Architecture (EOEPKA)
- Data science and Machine learning pipelines

**Business or sector** Software and IT

02.07.2018 – 31.01.2021

## Software developer &amp; Geoinformation scientist

Earth Observation Data Center (EODC)  
Franz-Grill-Straße, Vienna (Austria)

- Austrian Data Cube - Bringing big data satellite imagery to the Earth Observation Community in Austria with OGC services (Geoserver) and python (OpenDataCube)
- Openeo - An API for standardizing big data satellite imagery processing
- BMON - System for soil moisture monitoring

**Business or sector** Education and Research / IT

02.2017 – 03.2018

## University Assistant

Technical University Vienna  
Gusshausstrasse 29-27, Vienna (Austria)

*Administration, research, and education. Teaching courses Implementation of a GIS, Geometrical algorithms in GIS, Geoinformation 1, Realisation of a GIS.*  
*Researching Quality of life, Machine Learning, Geoinformatics and GIS.*

**Business or sector** Education and Research

06.2016 – 09.2016

## Guest Researcher

Technical University Vienna  
Gusshausstrasse 29-27, Vienna (Austria)

*Research and writing of master thesis regarding spatial standards ISO 19100 series, INSPIRE, LPIS and web development of a geoportal web application for agriculture*

**Business or sector** Education and Research

## EDUCATION

10.2015 – 11.2016 **Masters degree in Geodesy**

Faculty of Technical Sciences, University of Novi Sad

- Geodetic Surveying
- Engineering
- Geoinformatics and GIS
- Web Development
- Research methods

10.2011 – 10.2015 **Bachelors degree in Geodesy**

Faculty of Technical Sciences, University of Novi Sad

- Geodetic Surveying
- Engineering
- Geoinformatics and GIS
- Programming and informatics

9.2007 – 6.2011 **Geodetic Technician**

Secondary Civil Engineering and Technical school "Neimar" Nis

- Land Surveying
- Engineering
- Drafting and AutoCAD

## RESEARCH EXPERIENCE

**Publications**

- Bulatovic, V., Vasic, D., Markovic, M., Jankovic, N. (2015) *Utility information systems - practice book*. Novi Sad: University of Novi Sad ISBN: 978-86-7892-822-2
- Fogliaroni, P., Bucher D., Jankovic, N., Giannopoulos, I. (2018) Intersections of our world. *In Proceedings of the 10th International Conference on Geographic Information Science (GIScience)*
- Jankovic, N., Govedarica, M., Navratil, G., Fogliaroni, P., (2018) Domain model of an agricultural information system based on standards. *Geodetski Vestnik*, 61(1)
- Marković, M., Vasić, D., Janković, N. (2016) Comparative Analysis of the accuracy and reliability preanalysis of conventional methods and GNSS method of survey. *Geodetska služba*, 121, 48-61, UDK: [528.33+528.35]:[621.396.98+528.06]
- Marković, M., Vasić, D., Ninkov, T., Petković, M., Janković, N. (2016) Application of modern geodetic methods during the construction of highrise buildings. *Zbornik Radova Gradjevin-skog Fakulteta*, 987-996, DOI: 10.14415/konferencijaGFS2016.100

**Conferences presentations and attendance**

- COSIT 2017 - Conference on Spatial Information Theory, L'Aquila Italy, Presentation on doctoral colloquium of PhD topic
- IGSM 2017 (International Geodetic Student Meeting), Zagreb, Croatia - Poster presentation: Semantic web in GIS
- IGSM 2016 - Munich, Germany - Oral presentation: Application of modern Geodetic methods during the construction of highrise buildings
- IGSM 2015 - Espoo, Finland - Oral presentation: Crowdsourcing and open-geospatial data – volunteered geographic information
- IGSM 2014 - Istanbul, Turkey - Poster presentation: Integration of LiDAR and UAV data
- RGSM 2017 (Regional Geodetic Student Meeting), Ljubljana, Slovenia - Oral presentation: Research activities in geodesy and geoinformation at TU Wien

## Student research

- Modeling an information system for agricultural holdings using standards (master thesis)
- Integration and acquisition of data used for modeling of flood zones (bachelor thesis)
- GML and spatial databases (university award research paper)
- Implementation of LPIS using open-source solutions
- Application of Least squares, Gauss algorithm, data snooping and iterative methods in adjustment of networks in MATLAB
- Active geodetic reference networks and distributed systems

## VOLUNTEER EXPERIENCE

### 2013 – 2016 Teaching Fellow

Faculty of Technical Sciences, University of Novi Sad  
Trg Dositeja Obradovica 6, Novi Sad (Serbia)

*Helping with labs in Geodesy and Land Surveying for Civil Engineers, Engineering geodesy and Utility Information Systems.*

### 2012 – 2016 Member of the Student union

Faculty of Technical Sciences, University of Novi Sad  
Trg Dositeja Obradovica 6, Novi Sad (Serbia)

- Organisation of events
- Help with extracurricular activities

### 2014 – Current OSM Volunteer

OpenStreetMap Foundation, Humanitarian OpenStreetMap Team

- Local mapping
- Mapping in humanitarian relief

### 10.2015 Accessibility Audit Volunteer

Accessibility audit association Serbia  
<http://mapapristupacnosti.rs/>

- Mapping and editing information about accessibility in Serbia.

## TRAINING AND COURSES

### 1.2020 FitSM Advanced - Service Operation and Control

APMG International -

Link: [https://www.youracclaim.com/badges/28323ad7-2968-499f-94df-04bbbbb204d3f/linked\\_in\\_profile](https://www.youracclaim.com/badges/28323ad7-2968-499f-94df-04bbbbb204d3f/linked_in_profile)

### 1.2020 FitSM Advanced - Service Planning and Delivery

APMG International -

Link: [https://www.youracclaim.com/badges/977ea277-5632-4bbb-aa4e-97795d97f2d6/linked\\_in\\_profile](https://www.youracclaim.com/badges/977ea277-5632-4bbb-aa4e-97795d97f2d6/linked_in_profile)

### 12.2019 Scrum Certification Prep + Scrum Master + Agile

Udemy course - Link: <https://www.udemy.com/certificate/UC-MXXXM782/>

### 11.2019 FitSM Foundation

APMG International -

Link: [https://www.youracclaim.com/badges/900a3a6a-c748-4881-8798-538728d7c80a/linked\\_in\\_profile](https://www.youracclaim.com/badges/900a3a6a-c748-4881-8798-538728d7c80a/linked_in_profile)

## 11.2019 Nginx Fundamentals

Udemy course - Link: <https://www.udemy.com/certificate/UC-7QGLH7GP/>

## 2.2019 REST APIs with Flask and Python

Udemy course - Link: <https://www.udemy.com/certificate/UC-I5P13GNB/>

## .7.2017 Build 10 real world applications with python

Udemy course - Link: <https://www.udemy.com/certificate/UC-FUH20ZDU/>

## 11.2017 Web developer bootcamp

Udemy course - Link: <https://www.udemy.com/certificate/UC-L9X0S3A1/>

## 10.2015 ESRI: Going places with spatial analysis

Udemy course by ESRI, License Number: UC-KR9N6YNT

### PERSONAL SKILLS

Mother tongue Serbian

#### Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	B2	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
[Common European Framework of Reference \(CEF\) level](#)

#### Soft skills

- teamwork
- time management
- communication
- presentation
- teaching

#### General computer skills

- Microsoft Office 365 (Word, Excel, PowerPoint)
- Microsoft Windows & Linux
- Google and similar cloud tools (ie. Google Docs, Office Online, Cloud storage and sharing)
- LaTeX
- Wordpress (Worked on <https://geoinfo.geo.tuwien.ac.at/>)

#### GIS and drafting

- ArcGIS / QGIS / Geomedia
- AutoCAD / Civil3D / Map3D

#### Programming languages and Development

- python data+backend (pandas, sklearn, numpy, flask, seaborn, plotly, bokeh, openCV)
- frontend (HTML / CSS / Javascript / node.js + express / React.js + Redux.js)
- Geoserver (WMS, WFS, WCS) and Openlayers
- Git
- Nginx
- PostgreSQL / PostGIS / MongoDB
- MATLAB
- Other (basic): Java, C, C#

- Other skills**
- understanding of ISO 19100, INSPIRE, OGC standards
  - Reading and writing UML diagrams
  - data visualization and manipulation
  - excellent command of Geodetic Survey Instruments (Total Station, Level, GPS and GNSS)
  - computer assembly / computer building
  - research skills from writing thesis, papers, essays and assistant work
  - teaching skills from university volunteering and teaching assistant work
  - short course on GDPR
  - understands good security practices

## ADDITIONAL INFORMATION

- Awards**
- OeaD award and scholarship - Scholarship Foundation of the Republic of Austria for Undergraduates, Graduates and Postgraduates
  - Dositeja award and scholarship for the best 400 master students in the Republic of Serbia
  - Dositeja award and scholarship for the best 800 undergraduate students in the Republic of Serbia
  - Award for best presentation IGSM 2015
  - Award for best poster IGSM 2014
  - Award for student paper at the University of Novi Sad (2014)
  - Award for success in studies (2011, 2012, 2013, 2014)
- Projects**
- PRISM View Server - <https://gitlab.eox.at/esa/prism>
  - EOEPKA - <https://eoepka.github.io/>
  - Austrian Data Cube - <https://www.naturgefahren.at/projekte/COPERNICUS/ACube.html>
  - BMON - Bodenfeuchtmonitoring - <https://www.geo.tuwien.ac.at/projects/details/1537794>
  - OpenEO - <https://openeo.org/>
  - Deformation measurement and analysis of "Šelovrenac" dam
  - Measurement and creation of an information system for record keeping of a cemetery in the municipality "Pećinci"