

# KOFFI DODJI NOUMONVI

## GEOSPATIAL DEVELOPER

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## PROFILE

Dedicated GIS expert and Software Engineer with over five (5) years of experience in GIS analysis, application development, data analysis, and management. Proven ability to deliver innovative solutions in environmental and forestry projects. Skilled in using GIS tools and programming languages to develop efficient applications. Strong communication, organizational, and problem-solving skills, with a demonstrated ability to work effectively in team environments. Committed to continuous professional development and contributing to societal benefits through technology.

## SKILLS

### Geospatial tools:

Geoserver, ArcGIS, QGIS, Google Earth Engine, Leaflet

### Programming Languages:

Python, JavaScript, C, R, SQL, HTML, CSS

### Web Development:

Flask, (Geo)Django, NodeJS, ReactJS, Shiny

### Version control:

Git, Github

### Database management:

PostgreSQL, MySQL, MongoDB, Redis, MS Access

### Data analysis & Machine learning:

R, Python, XGBoost, Random Forest

### Soft skills:

Excellent communication  
Organized

Problem-solving  
Teamwork

## RECENT PROJECTS

### ALX HALL OF FAME • 2024

Web app for software engineers to showcase projects, interact and collaborate. Features a user's location map and project sharing.

Stacks: PostgreSQL, Python/Django, React JS, Tailwind CSS

### TUTORPLAN • 2024

Web app for private tutors and students, easy course browsing and appointment scheduling.

Stacks: MySQL, Python/Flask, React JS, CSS

### MIRE CHRONOSEQUENCE WEB GIS • 2022

Web GIS application started with QGIS2web QGIS extension, and edited to show images and customize functionalities

Stacks: JavaScript, HTML, CSS

### MIRE VEGETATION WEB GIS • 2023

Web GIS application showing vegetation classification in a Swedish peatland complex

Stacks: Random Forest (vegetation classification), ArcGIS online (mapping)

### PACKAGES (R & PYTHON) • 2022 - 2023

HUHOLA Python package for mapping mire microtopography using a terrain depression filling algorithm.

POSTEDDYPRO R package for post processing eddy covariance flux processed EddyPro. Covers, e.g., quality control, gap-filling with machine learning (XGBoost, RF)

## PROFESSIONAL EXPERIENCE

### ENGINEER - SENIOR TECHNICAL ADVISOR • AUG 2018 - AUG 2020

Department of Ecology, Slovenian Forestry Institute • Ljubljana-Slovenia

- Conducted advanced GIS analyses for carbon flux modeling and remote sensing projects.
- Managed and visualized data
- Developed Shiny applications to support large-scale environmental research.
- Supported the [EU Horizon 2020 LANDSUPPORT](#) project through technical expertise and collaboration

## EDUCATION

### FULL STACK SOFTWARE ENGINEERING - BACKEND SPECIALIZATION • MAY 2023 - JUL 2024

ALX Africa Cohort 16

### PhD CANDIDATE: SPATIAL MODELLING OF METHANE EMISSIONS • SEPT 2020 - APR 2025

Swedish University of Agricultural sciences, Umeå-Sweden

### FORESTRY & GEOMATICS OF NATURAL RESOURCES • SEPT 2009 - JUL 2018

ENFI (Ecole Nationale Forestière d'Ingénieurs) (Morocco) - University of Padova (Italy) - University of Lisbon (Portugal)

## LANGUAGE

French: Fluent (C2)   English: Professional working proficiency (C1)   Swedish: Intermediate (B1)   Italian & Portuguese: Intermediate (B1)

## REFERENCES

### Matthias Peichl, PhD: [matthias.peichl@slu.se](mailto:matthias.peichl@slu.se)

Professor at the department of Forest Ecology and management, Swedish University of Agricultural Sciences (SLU)

### Joss Ratcliffe, PhD: [joss.ratcliffe@slu.se](mailto:joss.ratcliffe@slu.se)

Research Engineer at the Unit for Field-based Forest Research, SLU

### Mitja Ferlan, PhD: [mitja.ferlan@gozdis.si](mailto:mitja.ferlan@gozdis.si)

Manager at the department for meteorological measurements, National meteorological service, Slovenian Environment Agency