Lisa Mandl

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🌐 https://scholar.google.de/citations?user=QQZZr_0AAAAJ&hl=de

Sex FEMALE | Date of birth 02/07/1996 | Nationality GERMAN

WORK EXPERIENCE

07/2022 – ongoing

PhD researcher

Technical University of Munich, Earth Observation for Ecosystem Management (Prof. C. Senf) and Ecosystem Dynamics and Forest Management (Prof. R. Seidl)

📍 Freising, Germany || Berchtesgaden, Germany

🌐 https://www.lss.ls.tum.de/eoem/startseite/

- Ph.D. project "FORECO", funded by Fachagentur für nachwachsende Rohstoffe (ERA-NET) https://www.foreco.org/
- Goal: Identifying, characterizing and mapping of post-disturbance forest recovery by the means of remote sensing
- Topics: Big Earth Data, spatial analysis, Landsat, Sentinel-2, post-disturbance recovery, forest disturbances
- Supervisor: Prof. Dr. Cornelius Senf

09/2018 – ongoing

Researcher

National Park Berchtesgaden, Department of research and monitoring

📍 Berchtesgaden, Germany

🌐 https://www.nationalpark-berchtesgaden.bayern.de/

- GIS programming and analysis
- Software testing and benchmarking of GPU/CPU clusters
- Spatio-temporal analysis of forests in Berchtesgaden National Park
- Derivation of remote sensing-based products
- Photogrammetric processing of historical aerial photographs and creation and validation of digital surface models and orthomosaics
- Implementation of a GIS-based habitat model for the distribution of the ibex and grouses

06/2018 – 09/2018

Internship

National Park Berchtesgaden, Department of Nature Conservation and Planning

📍 Berchtesgaden, Germany

🌐 https://www.nationalpark-berchtesgaden.bayern.de/

- Organization of a round tables and stakeholder engagements
- Cooperation in the preparation and conception of a new edition of the National Park plan
- In-situ measurement and statistical analysis of spring parameters
- Collaboration in the Interreg project "AlpBioNet 2030" on the topic of cross-border multi-stakeholder concepts for integrative wildlife management in the Alps
- Field work (securing paths, guiding, data collection in the field)

VOLUNTEERING

07/2021 - ongoing	**GI PLUS**

📍 Laufen, Germany

🌐 http://giplus.de/

Member of the management board in the non-profit organization "GI-PLUS"

- Goal: Fostering the proliferation of GI/EO technology on local and regional level (EUREGIO) in authorities and small economies

EDUCATION AND TRAINING

10/2018 – 07/2020	**Master of Science (M.Sc) in Applied Geoinformatics**

University of Salzburg, Interfaculty Department of Geoinformatics - Z_GIS

📍 Salzburg, Austria

🌐 https://www.plus.ac.at/zgis/?lang=en

Focus on:
- remote sensing
- spatial analysis / spatial statistics
- application development

Final grade: 1.0 || supervision: Prof. Dr. Stefan Lang

10/2015 – 07/2018	**Bachelor of Science (B.Sc) in Geography**

Ludwig-Maximilians University Munich, Department for Geography

📍 Ludwig-Maximilians University Munich, Department for Geography

🌐 https://www.geographie.uni-muenchen.de/department/fiona_eng/index.php

Focus on:
- land use systems
- climatology
- hydrology
- GIS / remote sensing

Final grade: 1.3 || supervision: Prof. Wolfram Mauser, Dr. Tobias Hank

PERSONAL SKILLS

Mother tongue(s)   German

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B1	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Technical skills   **Methodological competences:** image analysis (satellite-, aerial- and UAV data), object-based

image analysis, feature/information extraction, spatial analysis, spatial statistics, time series analysis, change detection, sensor fusion, LiDAR processing, photogrammetry, Artificial Intelligence, accuracy assessment, cartography

Domain knowledge: geography, landscape analysis, (disturbance) ecology, forestry, environmental and biodiversity monitoring (in-situ and EO-based), ecosystem dynamics, climate change strategies

User-oriented geospatial services: product specifications, user requirements, workflow optimization, data integration across scales and sensors

Computer skills	**General IT competences:** MS Office package (Word, Excel, Powerpoint, Access, Outlook)

Organizational software: Gantt, Monday, InLoox, Git

Statistical software: SPSS, R

Databases: MySQL, PostgreSQL, MongoDB

Geographical information systems (GIS): ESRI product palette (ArcGIS Pro, ArcGIS Desktop, ArcGIS online), Open source GIS (QGIS, SAGA GIS)

Photogrammetric and image analysis software: Agisoft Metashape, Pix4D, Erdas Imagine, eCognition, Google Earth Engine, Global Mapper, SNAP

Programming languages: R (advanced), Python (advanced), SQL (intermediate), XML (intermediate), CNL (basic), JavaScript (basic), Java (basic)

Driving licence	Driving licence category:

▪ B

ADDITIONAL INFORMATION

LinkedIn	https://www.linkedin.com/in/lisa-mandl-bb1425193/
Twitter	https://twitter.com/_lisamandl
Conferences	AGIT 2019; LPS 2022; GI Week 2022, 2023; EGU 2023, 2024
Honours and awards	Karl-Kraus Young Scientist Award - finalist