

David Hanny

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SUMMARY

I'm a data scientist currently working in geosocial media research. Curious about methodology, interested in machine learning, social phenomena and geoinformatics.

WORK EXPERIENCE

Researcher | Z_GIS - Department of Geoinformatics | University of Salzburg Dec. 2022 - present

- Development of novel machine learning methods for analyzing and modelling geospatial data such as geo-referenced social media posts or cellular network data in the context of disaster management and epidemiology.
- Implementation and evaluation of neural networks and NLP pipelines. Software development for data acquisition and data processing with Java and Python. Infrastructure management.
- Started as a student assistant, doctoral researcher since Nov. 2023.

Data Science Consultant | Axians ICT Austria GmbH | Salzburg Jul. 2021 - Nov. 2022

- Conception and implementation of AI applications with Python, Java, JavaScript and TypeScript.
- Completed a tool for computing the CO2 emissions of construction projects and an application for mapping orders to the internal product groups of a major Austrian industrial company.
- Development of a variety of database management tools for Postgres and Oracle databases, e.g. for automatic testing, OAuth authorization and easier schema administration.

Data Science Expert | correlate analytics gmbh | Salzburg Jun. 2022 - Aug. 2022

- Production of quiz items for the assessment of data science knowledge on competence levels five and six of the European Qualifications Framework.

Freelance Data and Business Journalist | Various media outlets | Vienna 2017 - 2021

- Before becoming a data scientist, I worked as a data and business journalist for various media outlets in Vienna alongside my bachelor studies. Among others, I published print and online articles in the investigative magazine Dossier, the German edition of Forbes and the former daily newspaper Wiener Zeitung. My work strongly focused on technology, business and scripted data journalism using Python. Published examples can be found [here](#).

EDUCATION

PhD in Applied Geoinformatics | University of Salzburg 2024 - present

- Research topic: Multimodal machine learning of spatial data.

MSc in Data Science | University of Salzburg 2020 - 2023

- Thesis: *Spatiotemporal Topic-Sentiment Modelling of Social Media Data with Neural Networks*.
- Specialization in statistical methods, big data algorithms and image processing.
- Student representative, part of the curriculum and admissions committees.
- Lots of voluntary coursework in computer science, mathematics and philosophy of science.

BA in Journalism and Media Management | FH Vienna of WKW

2017 - 2020

- Specialization in data journalism and investigative research.
- Interdisciplinary mix of communication science, media technology, economics, political science and law.
- Exchange semester in Antwerp, Belgium.

Matura (Diploma) in Information Technology | HTL Krems

2012 - 2017

- Software development with C#, C, JavaScript and PHP.
- Systems engineering, media technology, hardware programming, elective subject economics and law.

SKILLS

Technical Skills	Python, R, Java, Julia, JavaScript, TypeScript, C++, C#, SQL, PL/SQL, HTML, CSS, Linux, LateX, QGIS, ArcGIS
Other skills	Software engineering, data visualization, writing, project management
Languages	German (mother tongue), English (C1), French (B1), Russian, Dutch (A1)