



Dominic Weissner

SUMMARY

- A strong mathematics and statistics focused higher education.
- Completed BSc MORSE at Warwick University
- Completed MSc AI for Sustainable Development at UCL
- Experienced in geospatial data-science through both MSc programme and professionally.
- International background and multilingual.

Personal Details

Date of Birth: 24/06/1999

Nationality:

British/German/Brazilian

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Current Research

Extending my master's thesis into a paper for the 2026 Climate Informatics Conference. The work leverages ML and TL to develop a library of Offshore Wind Power Forecasting models able to generalise across domains. Each model is optimised for a specific weather pattern, therefore allowing new wind farms to achieve accurate forecasting accuracy with very limited local data.

Additional Skills

Computer Skills –

Python, QGIS, R, MATLAB, Power Bi, Excel VBA

Language Skills –

Native English, Fluent German, Intermediate Spanish

Online Qualifications

2022: **Harvard University – CS50:** Introduction to Computer Science

2023: **MITx – 6.86x:** Machine Learning with Python – From linear models to Deep Learning

EDUCATION

Sept 2024 – Sept 2025: MSc AI for Sustainable Development – University College London (UCL) – Distinction (74%)

- Dissertation (76%): “Cross-Domain Offshore Wind Power Forecasting: Transfer Learning Through Meteorological Clustering and Gaussian Process Adaptation” – applying TL through a novel meteorological clustering technique to enhance offshore wind power forecasting accuracy in data-scarce regions by leveraging knowledge gained from data-rich regions.

Geospatial Projects undertaken include:

- Contributing to the development of a global post-wildfire land classification model using knowledge distillation techniques.
- Quantified the impact of droughts on the volume of water in the Alter do Chao aquifer using Sentinel-1 and GRACE data.
- Investigated the use of satellite imagery and AI for Arctic monitoring, focusing on sea-ice concentration and the fraction of leads/melt ponds through the collocation of Sentinel-2 and Sentinel-3 data.
- Relevant modules: AI for Earth Observation, Geospatial Data Science, Deep Representation & Learning, Foundations of AI, Applied AI, and others.

Sept 2017 – Sept 2020: BSc (Hons) MORSE (Mathematics, Operational Research, Statistics & Economics) – University of Warwick - First Class Honours

- Studied advanced modules such as Stochastic Processes, Bayesian Statistics & Decision Theory, Mathematical Game Theory: Combinatorial & Search games, Mathematical Programming I & II and more...

Sept 2015 – Sept 2017: King's College, Madrid, Spain – A Levels:

- A*, A*, A, B, A Maths, Further Maths, Chemistry, Physics, EPQ (Extended Project Qualification)

WORK EXPERIENCE

Sept 2025 – Dec 2025: AI and Remote Sensing Intern - Remote Sensing Solutions GmbH, Munich

- Contributing to the DestinE Agricultural Digital Twin project by developing a scenario-based drought forecasting model for Germany, Italy, and Kenya, delivering 1km resolution drought probability estimates across future extreme-precipitation scenarios using an ensemble ML approach.
- Developed an ensemble model to predict Soil Organic Carbon (SOC) across farmlands in Austria, Bulgaria, and Bavaria using Sentinel-2 multispectral imagery and the LUCAS soil dataset (2018), improving spatial accuracy and supporting sustainable land management.

May 2022 – May 2024: Sports Modeller - Sporting Group, London

- Collaborated on the development of ML models to predict outcomes of sporting events, leveraging Python, R & SQL to clean, process and analyse large datasets.
- Conducted advanced player performance modelling for elite-level teams, incorporating historical trends, opponent analysis, and position-based metrics to generate tailored predictive insights.

Interests:

Avid sportsman –

Lisbon marathon, cycling, hiking, squash, padel, Doha amateur men’s football league, bouldering

Passionate traveller & adventurer –

Visited 40+ countries including hikes in Nepal & Central America. Backpacked across Pakistan, India, China & Borneo

Sept 2020 – April 2022: Actuarial Graduate – Munich Re, London

- Worked within the Biometrics/Experience Analysis team, conducting in-depth experience analyses for client quotes. Responsibilities included querying client data, identifying trends, assessing Covid-19 impacts and presenting findings.
- Led the data analysis for Munich Re’s Covid-19 impact assessment projects
- Selected to support the Strategic Planning Executive (from September 2021), following a successful internal application. Analysed data for upcoming projects to assess feasibility, prioritisation and alignment with the organisation’s strategic goals.

July 2019 – August 2019: Risk Advisory – Deloitte Summer Internship

BACKGROUND

International Background:

- Grew up Internationally. Lived several years in Thailand (2 years), Germany (3 years), Turkey (7 years), Qatar (6 years), Spain (2 years), UK (6 years).
- English, German & Brazilian background, family ties to all three countries (father German/Brazilian, mother British).