David Ruben Max Graf

Current Position

2026 – **Ph.D**, GEOMAR Helmholtz Centre for Ocean Research Kiel & Kiel University
Research in the application of inverse reinforcement learning to uncover motivations in fish behavior

Education

2022 – 2025 **Data Science**, *MSc*, Paris Lodron University Salzburg
2019 – 2022 **Applied Limnology**, *MSc*, BOKU Vienna
2016 – 2019 **Environmental Science**, *BSc*, Carl von Ossietzky University Oldenburg
2018/19 **Erasmus exchange semester**, Linnaeus University Kalmar, Sweden

Publications

- **Graf, DRM**, M Moser, S Gandhi, M Badici, and B Resch. *Static and Dynamic Stress Determinants in Urban Environments - A Spatiotemporal Approach Combining Wearable Sensors and Point-of-view Videos to Evaluate Stress in Urban Cycling*. Submitted to ACM Transactions on Spatial Algorithms and Systems - Special issue on Urban Mobility; 1st Round, Major Revisions
- Moser, M, **DRM Graf**, S Gandhi, and B Resch. *The Spatiotemporal Impact of Urban Characteristics on Stress in Cycling – Combining Wearable Sensors with Visual Media.* Submitted to Urban Informatics; 1st Round, Major Revisions
- Moser, M, B Resch, P Zeile, M Keskin, S Schmidt, W Yap, **DRM Graf**, M Heinke, S Gandhi. *Understanding the Influence of Urban Characteristics on Cyclists' Stress Measured through Wearable Sensors: A Quantitative Open Data Approach.* Submitted to Environment and Planning B: Urban Analytics and City Science; 2nd Round, Minor Revisions
- Führer, S, DS Hayes, T Hasler, **DRM Graf**, E Fauchery, D Mameri, S Schmutz, and S Auer. *Stranding of larval nase (Chondrostoma nasus L.) depending on bank slope, down-ramping rate and daytime* Frontiers in Environmental Science 10 (2022): 966418.
- Hayes, DS, S Auer, E Fauchery, **DRM Graf**, T Hasler, D Mameri, S Schmutz, and S Führer. *The interactive effect of river bank morphology and daytime on downstream displacement and stranding of cyprinid larvae in hydropeaking conditions.* Ecohydrology & Hydrobiology 23, no. 1 (2023): 152-161.
- Mameri, D, DS Hayes, S Führer, E Fauchery, S Schmutz, A Monserat, T Hasler, **DRM Graf**, JM Santos, MT Ferreira, and S Auer. *Cold thermopeaking-induced drift of nase Chondrostoma nasus larvae.* Aquatic Sciences 85, no. 2 (2023): 56.

Professional Experience

04.2024 – 03.2025 **Research Assistant**, Salzburg University & IT:U Linz, Geosocial AI working group

02.2020 – 03.2022 **Student Research Assistant**, BOKU Vienna

Skills

- R
- Python
- Git
- QGIS, ArcGIS
- LaTeX
- Docker

Languages

- English C2
- Spanish B2
- French C1
- Italian, Swedish A2