

Robert Ladwig

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Work experience

Since 07/15 Research assistant at Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Department Chemical Analytics and Biogeochemistry, Working group Michael Hupfer (Biogeochemical Processes in Lake Sediments)

05/15 - 07/15 Research assistant at the Chair of Hydrology, Institute of Hydrology and Meteorology, Technische Universität Dresden

11/13 - 12/13 Student assistant at Institut für Wasser und Boden Dr. Uhlmann, Dresden

09/13 - 10/13 Internship at Helmholtz-Zentrum für Umweltforschung, Department Catchment Hydrology, Halle

03/12 - 04/12 Internship at KOWUG Kommunale Wasser- und Umweltanalytik GmbH, Gera

08/11 - 02/12 Student research assistant at Max-Planck-Institut für Biogeochemie, Jena

07/09 - 08/09 Internship at JENA-GEOS-Ingenieurbüro GmbH, Jena

Languages

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| German | Native Language |
| English | Fluent, level C1 (effective operational proficiency) |
| French | Beginner |

Higher Education

Since 07/15 **PhD student in the DFG Research Training Group “Urban Water Interfaces” at IGB**

Topic “Impact of remaining wastewater constituents on interfaces in surface waters”

- Modelling of lake systems to investigate possible feedbacks between technical interfaces and the ecology
- Multivariate statistical analysis
- Computational fluid dynamics
- Ecological modelling
- Lake management

2012 - **Technical University of Dresden**

2015 Graduate course Hydrology Master of Science (grade 1.5)

Thesis “Optimal management of arid coastal aquifers with the use of density-dependent groundwater flow modeling and artificial neural networks”

2009 - **Friedrich-Schiller-University Jena**

2012 Undergraduate course BioGeoWissenschaften Bachelor of Science (grade 1.7)

Thesis “Spatiotemporal status of the heavy metal contamination in natural and contaminated test sites”

Computing skills

Programming MATLAB/Octave, Python, R, some experience with Fortran 90

Modelling software General Lake Model, TELEMAC-MASCARET, DELWAQ, OpenGeoSys, MODFLOW-2005, PCLake, PHREEQC, HEC-RAS, AKWA-M, Hydrus

Misc. applications Microsoft Office, LaTeX, ArcGIS, QGIS, ParaView, Inkscape, GitHub, FileZilla