




Robert Ladwig

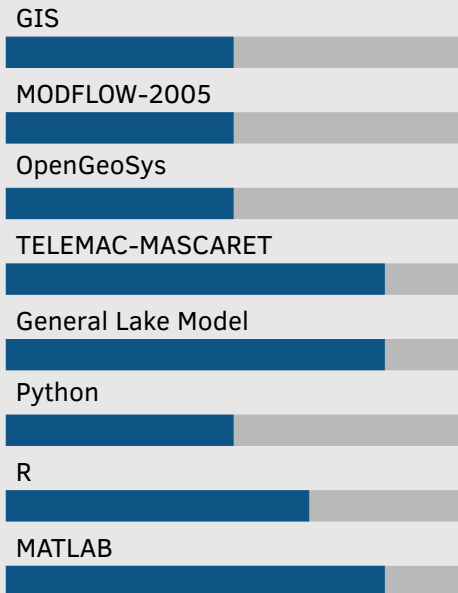
Hydrologist

 Berlin, Germany

About me

My PhD research is about the impact of adaptive water management measures on urban surface water systems. Here, I am exploring water management measures using numerical models to mitigate unwanted consequences, for instance eutrophication, and investigating the impact of climate change on the thermal stratification of urban lakes. My background is in groundwater modeling and applied hydrogeology.

Skills



(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Research interests

Hydrology, Water Resources Management, Computational Fluid Dynamics, Physical Limnology, Climate Change, Hydrogeology, Ecological Modeling

Education

- since 2015 Ph.D. candidate in Civil Engineering TU Berlin
Impact of adaptive water management measures in times of climate change on interfaces in urban lakes
- 2012-2015 Master of Science in Hydrology TU Dresden
Optimal management of arid coastal aquifers with the use of density-dependent groundwater flow modeling and artificial neural networks
- 2009-2012 Bachelor of Science in BioGeoSciences FSU Jena
Spatiotemporal status of the heavy metal contamination in natural and contaminated test sites

Publications in peer-reviewed journals

- 2018 Ladwig, R., Furusato, E., Kirillin, G., Hinkelmann, R., Hupfer M.: Climate Change Demands Adaptive Management of Urban Lakes: Model-Based Assessment of Management Scenarios for Lake Tegel (Berlin, Germany). *Water* 10, 168
- 2017 Ladwig, R., Heinrich, L., Singer, G., Hupfer M.: Sediment core data reconstruct the management history and usage of a heavily modified urban lake in Berlin, Germany. *Environ Sci Pollut Res.* 24: 25166-25178

Experience

- 9-11/17 Special research student Saitama Univ., Japan
research stay at working group Eiichi Furusato
- since 7/15 Research assistant IGB Berlin
RTG 'Urban Water Interfaces' (DFG), working group Michael Hupfer 'Biogeochemical Processes in Sediments and Lake Management'
- 5-7/15 Research assistant Chair of Hydrology, TU Dresden
modeling and economic evaluation of groundwater management scenarios (saltwater intrusion)
- 11-12/13 Student assistant Institut für Wasser und Boden Dr. Uhlmann, Dresden
stream gauging, data analysis
- 9-10/13 Internship Catchment Hydrology, UFZ Halle
isotope analysis, chemical analysis, field sampling
- 8/11-2/12 Student assistant MPI Biogeochemistry Jena
technical work

Attended Conferences

- 2017 Poster Nagoya, Japan
ELR2017NAGOYA and ICLEE 8th Conference
- 2017 Oral presentation Vienna, Austria
EGU General Assembly 2017
- 2016 Oral presentation Vienna, Austria
DGL Tagung Wien
- 2016 Oral presentation Moscow, Russia
The Sixth German-Russian Week of the Young Researcher 'Urban Studies: The City of the Future'

Languages

German (native), English (fluent, level C1), French and Japanese (beginner)