

Department of Biology and Ecology of Fishes



Dr. Christian Wolter

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Research group

Fish Ecology; River rehabilitation

Main research interests

*Process-Based Fish Assemblages Dynamics in Large Rivers,
Resilience of Fish Communities
River Rehabilitation and Management,
Fish-Based Environmental Assessment,
Environmental History*

Education 1999
1986-1991

*PhD, Humboldt-Universität zu Berlin
Fisheries Science and Fish Production, Humboldt-Universität zu Berlin*

Professional appointments Since 2000
Since 1992
1991

*Senior Scientist / Group leader, IGB
Research Assistant, IGB
Research Assistant, Institute for Inland Fisheries, Berlin*

Five key publications (last five years)

- Friberg N, Angelopoulos NV, Buijse AD, Cowx IG, Kail J, Moe TF, Moir HH, O'Hare MT, Verdonschot PFM, Wolter C (2016) *Effective River Restoration in the 21st Century: From Trial and Error to Novel Evidence-Based Approaches. Advances in Ecological Research 55: 535-611. DOI: 10.1016/bs.aecr.2016.08.010*
- Lorenz S, Martínez-Fernández V, Alonso C, Mosselman E, García de Jalón D, González del Tánago M, Belletti B, Hendriks D, Wolter C (2016) *Fuzzy cognitive mapping for predicting hydromorphological responses to multiple pressures in rivers. Journal of Applied Ecology 53: 559-566. DOI: 10.1111/1365-2664.12569*
- Radinger J, Essl F, Hölker F, Horký P, Slavík O, Wolter C (2017) *The future distribution of river fish: the complex interplay of climate and land use changes, species dispersal and movement barriers. Global Change Biology 23: 4970-4986. DOI: 10.1111/gcb.13760*
- Radinger J, Hölker F, Horký P, Slavík O, Dendoncker N, Wolter C (2016) *Synergistic and antagonistic interactions of future land use and climate change on river fish assemblages. Global Change Biology 22: 1505-1522. DOI: 10.1111/gcb.13183*
- Zajicek P, Radinger J, Wolter C (2018) *Disentangling multiple pressures on fish assemblages in large rivers. Science of the Total Environment 627: 1093-1105. DOI: 10.1016/j.scitotenv.2018.01.307*

Externally funded research projects

(selection, last five years)

- *FIThydro – Fishfriendly Innovative Technologies for Hydropower (2016-2020), EU H2020*
- *Baggersee: Improving ecosystem services generated by gravel pit lakes through good managerial practice (2016-2022), BMBF*
- *Interdisciplinary Research Network ‘Good Ecological Potential of Urban Waters’ (2016-2019), Berlin Senate for Economics, Technology and Research*
- *MARS – Managing Aquatic ecosystems and water Resources under multiple Stress (2014-2018), EU FP7*
- *REFORM – REstoring rivers FOR effective catchment Management (2011-2015), EU FP7*

Current teaching and supervision

Lectures

- *Fish Conservation, Humboldt-Universität zu Berlin*

Post-docs

- *Jörg Freyhof*
- *Steffen Bader*

Graduate students

- *Petr Zajicek*
- *Ruben van Treec*

Supervision

BSc (6), MSc (37, 2 ongoing), PhD (8, 2 ongoing), Post-docs (17, 2 ongoing)

Current services and memberships

Editorial boards

- *Journal of Applied Ichthyology (EiC)*
- *Limnologica*

Scientific advisory boards and committees

- *Institute of Inland Fisheries Potsdam-Sacrow*
- *Fisheries Advisory Board Berlin*

Other functions

- *President International Society for River Science ISRS*
- *Speaker IGB's Cross-cutting Research Domain Human-Aquatic Ecosystem Interaction*
- *Deputy Head Department*