



Leibniz-Institute of Freshwater Ecology and Inland Fisheries

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) is the largest research institute for freshwater ecology and inland fisheries in Germany (www.igb-berlin.de). It is a member of the Forschungsverbund Berlin e.V. (FVB) and the Leibniz-Association. The FVB manages 8 large research institutes in Berlin that have close links to all three universities in the German capital. IGB offers excellent laboratory and field facilities for interdisciplinary research, large-scale experimental facilities, and long-term research programs and data sets.

The IGB is looking at the earliest possible date, but no later than 01.05.2019, for a

PostDoc Project coordination, concept- and model development

(TVöD, 80 %, responsible scientist: Markus Venohr, Department 1)

Post-Doc Modelling to develop management recommendations

(TVöD, 100 %, responsible scientist: Franz Hölker, Department 1)

PhD student Angler behaviour in freshwater landscapes

(TVöD, 66 %, responsible scientist: Robert Arlinghaus, Department 4)

PhD student Ecological impacts of leisure activities

(TVöD, 66 %, responsible scientist: Christian Wolter, Department 4)

PhD student Spatio-temporal distribution of recreation activities

(TVöD, 66 %, responsible scientist: Markus Venohr, Department 1)

The positions are part of the AQUATAG project "Recreation activities in inland waters: Dynamics, ecological impacts, social significance and sustainable management" applied for at the Federal Ministry of Education and Research (BMBF). AQUATAG is an innovative interdisciplinary project that aims bringing together social-ecological interrelations in the field of recreation ecology. The project considers interactions between recreational uses, condition and attractiveness of water bodies, ecological effects as well as conflicts of use and management objectives and will consider data of social media, surveys, ecological field surveys and modelling. The content of the project will be contextualised in close exchange with relevant outdoor recreation and environmental associations and authorities.

The project will be carried out in cooperation with the Technical University Berlin (Alexandra Dehnhardt), the University Duisburg-Essen (Daniel Hering), the Technical University Dresden (Goddert von Oheimb), imug Institute at the Leibniz University Hannover (Melanie Fuljahn) and the Upper Nature Conservation Authority (Oberen Naturschutzbehörde im Regierungspräsidium) Kassel (Reinhard Rust).

Have we raised interest? How to apply?

For further details on the advertised positions, please visit our homepage (www.igb-berlin.de/en/jobs) and click on the individual job advertisements. Click the "Apply online" button to send us your complete, exclusively electronic, application documents in a single PDF file, consisting of: cover letter (1 page), letter of motivation (max. 2 pages), curriculum vitae, max. 2 representative publications (or master thesis), copies of relevant certificates as well as names and contact addresses of up to three reviewers. The application deadline is 10.02.2019.

For technical information, please contact Dr. Markus Venohr by telephone (030 / 6392 4074) or e-mail (m.venohr@igb-berlin.de).



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IGB invites applications for a part-time position as

PostDoc

in social-ecological conceptual model development and as project coordinator. The post forms part of the AQUATAG project "Recreation activities in inland waters: Dynamics, ecological impacts, social significance and sustainable management" applied for at the Federal Ministry of Education and Research (BMBF). AQUATAG is an innovative interdisciplinary project that aims bringing together social-ecological interrelations in the field of recreation ecology. The project considers interactions between recreational uses, condition and attractiveness of water bodies, ecological effects as well as conflicts of use and management objectives and will consider data of social media, surveys, ecological field surveys and modelling.

The post is designed to coordinate overall project activities and communication between involved scientific and praxis partners. Further the candidate will be involved in the aquisition, meta-analysis and interpretation of social media data as well as developing spatio-temporal conceptual models to develop/improve management approaches for water based recreational activities in Germany. Beyond this the preparation and publication of central project results in form of international reviewed papers, flyers, policy briefs, web-contents, tweets and blog entries has to be organized and conducted by the candidate.

Qualifications for this position include a PhD in environmental management, ecosystem services, statistics, econometrics, social ecology, geography, aquatic biodiversity and nature conservation or a related field of environmental science.

We are seeking to recruit outstanding scientists to establish an innovative research program with high international visibility. The successful candidate will be dynamic and motivated and have experience in collaborating in an interdisciplinary project, stakeholder cooperation, ecosystem service, social media, data and statistical analysis and developing of conceptual models for various scales and in environmental science contexts. The successful candidate should be experienced in combining interdisciplinary scientific contents and approaches with numerical / statistical skills and spatial analysis. Expertise in developing empirical-conceptual model approaches would be advantageous. Our favoured candidate works well in interdisciplinary teams.

Due to the comprehensive communication with German stakeholders and the requirement to present and publish results in international media strong German and English language skills both in oral and written communication are also required.

Salary is paid according to the TVöD (80 % position). In keeping with the IGB's policy regarding gender equality, female applicants are particularly encouraged. Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

The position is available as soon as possible and latest from **01/05/2019** and limited to 3 years.

How to apply?

We seek an exclusively electronic application consisting of a single combined PDF file that includes: cover letter (max. 1 page), letter of motivation (max. 2 pages), curriculum vitae, max. 2 representative publications, copies of relevant certificates as well as names and contact addresses of up to three reviewers. Please upload your application via the IGB's online job-application facility (www.igb-berlin.de/job-offers.html). The **application deadline** is **10.02.2019**.

Enquiries or questions should be directed to **Dr. Markus Venohr** (030/6392-4074, m.venohr@igb-berlin.de)

We are looking forward to your application!



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IGB invites applications for a

PostDoc in social-ecological modeling

as part of a collaborative project AQUATAG addressing "Recreation activities in inland waters: Dynamics, ecological impacts, social significance and sustainable management" applied for at the Federal Ministry of Education and Research (BMBF). AQUATAG is a social-ecological project that studies the interactions between diverse recreational uses of freshwaters from ecological, economic and social perspectives. The research approach is broad, yet very applied, involving data analysis of social media, on-site and off-site surveys, ecological field surveys, integrated spatial modelling and the development of an integrated management approach (for project concept, see Venohr et al. (2018), doi: 10.1139/er-2017-0024).

We are seeking to recruit a dedicated postdoc with demonstrated expertise in social-ecological modelling. The ideal candidate has a strong mathematical and programming background and a solid understanding of social and/or ecological concepts, combining experience in spatial explicit approaches in environmental modelling (e.g. agent-based or gravity model approaches) with an interest in confronting social-ecological theory and models with experimental data. Research experience in participatory methods during modelling and scenario analysis and in the general ecology of aquatic ecosystems is particularly useful, although not a strict requirement. Expertise in developing empirical-conceptual model approaches would be advantageous.

The position is available as soon as possible and latest from **01/05/2019** and limited to 3 years. Salary is paid according to the TVöD (100 % position). In keeping with the IGB's policy regarding gender equality, female applicants are particularly encouraged. Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

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Enquiries or questions should be directed to PD **Dr. Franz Hölker** (+49-30-64181-665, hoelker@igb-berlin.de).

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IGB in the IFishMan research group by Prof. Dr. Robert Arlinghaus invites applications for a

PhD student in Recreational Angler Behaviour in Freshwater Landscapes

The position is available as soon as possible and latest from **May, 01, 2019** and is limited to 3 years. The PhD position forms part of the multi-investigator AQUATAG project, entitled "Recreation activities in inland waters: dynamics, ecological impacts, social significance and sustainable management" funded by the Federal Ministry of Education and Research (BMBF) (for project concept, see Venohr et al. (2018), Environmental Reviews). AQUATAG constitutes a social-ecological project that studies the interactions between diverse recreational uses of freshwaters from ecological, economic and social perspectives. The research approach is broad, yet very applied, involving data analysis of social media, on-site and off-site surveys, ecological field surveys and integrated spatial modelling.

The objective of the PhD project in the social and economic workpackage is to better understand the behavioural decisions of recreational anglers in different freshwater landscapes across spatial scales in Germany. The angler subproject takes advantage of already collected stated (survey) and revealed preference data (diary data) from large-N angler surveys in Mecklenburg-Vorpommern and Lower Saxony. The task is to understand the preferences that anglers have for different attributes of the fishing experience, formally describe the site choice processes of different angler types and subsequently construct and study integrated landscape models of fish stock-angler interactions. The models will be used to examine policy and management questions on how to best manage recreational fisheries in landscapes while accounting for human behavioural responses and ecological impacts. An example simulation study is Matsumura et al. (2019), Reviews in Fisheries Science and Aquaculture. The project is co-supervised by Dr. Jürgen Meyerhoff (Technical University Berlin) and will further benefit from already existing collaborations with economists, human dimension specialists and modellers.

The desired **competencies** of the candidate are:

- Masters in fisheries science, ecological/environmental/resource economics, agricultural economics, human geography, environmental science, sustainability science, natural resource management or a related degree
- Quantitative and econometric/statistical modelling skills, ideally in stated or revealed preference choice modelling, spatial simulation modelling or spatial statistics
- Knowledge of geographic information systems
- English and ideally also German communication skills (oral, written)
- Experience with recreational fisheries is a bonus

The PhD student will be graduated through the Faculty of Life Sciences, Humboldt-Universität zu Berlin. Salary is paid according to the TVöD (66 % position). In keeping with

the IGB's policy regarding gender equality, female applicants are particularly encouraged. Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

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Enquiries or questions should be directed to **Prof. Dr. Robert Arlinghaus** (+49-30-64181-653, arlinghaus@igb-berlin.de, for details on the working group, see www.ifishman.de).

Feldfunktion geändert

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The IGB is situated in the Southeast of Berlin at the bank of Lake Müggelsee. It offers not only excellent laboratory and field facilities for interdisciplinary research, large-scale experimental facilities, and long-term research programs and data sets, but also a friendly, multi-national working atmosphere, highly flexible working and presence times as well as an extensive PhD training program and human resources strategy implemented.

IGB in the River Rehabilitation research group by Dr. Christian Wolter invites applications for a

PhD student working on Ecological Impacts of Leisure Activities

The position is available as soon as possible and latest from **May, 01, 2019** and is limited to 3 years. The PhD position forms part of the multi-investigator project AQUATAG ("Recreation activities in inland waters: dynamics, ecological impacts, social significance and sustainable management") funded by the Federal Ministry of Education and Research (BMBF). AQUATAG is a social-ecological project that studies the interactions between diverse recreational uses of freshwaters from ecological, economic and social perspectives. The research approach is broad, yet very applied, involving data analysis of social media, on-site and off-site surveys, ecological field surveys and integrated spatial modelling. For the project concept, please refer to Venohr et al. (2018), doi: 10.1139/er-2017-0024.

The objective of the PhD project in the ecological impacts work package is to identify and analyse the ecological impacts of a variety of recreational activities in, on and along freshwaters. The focus is primarily on but not limited to non-motorized activities. Beside a meta-analytical exploration of the existing knowledge, the work package has a strong experimental and field work component aiming in spatially and temporally explicitly quantifying potential ecological impacts on fishes, birds and other aquatic and semiaquatic taxa.

The project is co-supervised by Prof. Goddert von Oheimb (Technische Universität Dresden) and will further benefit from the interdisciplinary research group and already established collaborations with practise partners in the study regions.

The desired **competencies** of the candidate are:

- Master degree in environmental sciences, biology, ecology, fisheries or related

- Taxonomic skills, in particular waterfowls, fish, dragonflies
- Statistics, quantitative and statistical modelling
- GIS knowledge
- English and ideally also German communication skills (oral, written)
- Engagement in water-bound recreational activities is a bonus

The PhD student will be graduated through the Faculty of Life Sciences, Humboldt-Universität zu Berlin. Salary is paid according to the TVöD (66 % position). In keeping with the IGB's policy regarding gender equality, female applicants are particularly encouraged. Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

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Enquiries or questions should be directed to **Dr. Christian Wolter** (+49-30-64181633, wolter@igb-berlin.de).

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IGB in the research group by Dr. Markus Venohr invites applications for a

PhD student

in Analysing spatio-temporal distributions of recreation activities, as part of a collaborative project AQUATAG addressing "Recreation activities in inland waters: Dynamics, ecological impacts, social significance and sustainable management" applied for at the Federal Ministry of Education and Research (BMBF). AQUATAG constitutes a social-ecological project that studies the interactions between diverse recreational uses of freshwaters from ecological, economic and social perspectives. The broad research approach involves data analysis of social media, on-site and off-site surveys, ecological field surveys, spatial modelling and the development of integrated management concepts (for project concept, see Venohr et al. (2018), doi: 10.1139/er-2017-0024).

The objective of the PhD project is to derive dynamics and spatial pattern of recreational uses from various data sources, such as social media data, surveys and field observations. In this context site characteristics (e.g. weather, naturalness, water quality, reachability, social milieus) will be linked with the perception and preferences of users to identify usage-type specific distributions and frequencies at different scales across Germany.

We are seeking to recruit a dedicated PhD student with background in social-ecology, geography, ecosystem services, statistics, programming or related research fields. The successful candidate should be interested in combining interdisciplinary scientific contents and approaches with statistical skills and spatial analysis. Expertise in working with and analysing large data sets would be advantageous.

The position is available as soon as possible and latest from **May, 01, 2019** and is limited to 3 years. Salary is paid according to the TVöD (66 % position). In keeping with the IGB's policy regarding gender equality, female applicants are particularly encouraged. Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

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