

## Curriculum Vitae of Dr. Simone D. Langhans

### PERSONAL INFORMATION

Family name, First names: **Langhans, Simone Daniela**  
 Date of birth: **18 September 1976**  
 Nationality: **Swiss**  
 ORCID: **0000-0001-9581-3183**  
 BC3 profile: [https://www.bc3research.org/simone\\_langhans](https://www.bc3research.org/simone_langhans)  
 Lab webpage: [http://aries.integratedmodelling.org/?page\\_id=122](http://aries.integratedmodelling.org/?page_id=122)  
 Personal webpage: <https://sdlanghans.weebly.com/>  
 Find me on Twitter @sdlanghans: <https://twitter.com/sdlanghans>

### RESEARCH STATEMENT

I am a freshwater ecologist with extensive experience in aquatic ecology, river restoration, decision sciences and biodiversity conservation planning. In my research I combine these topics to, often in multi-disciplinary teams, investigate alternative ways of solving complex environmental decision problems with a focus on fresh waters.

### PUBLICATION SUMMARY *as of 10 September 2020, based on google scholar*

Articles with citation data: 46  
 Total Articles in peer-reviewed journals: 37  
 Total sum of the times cited: 1154  
 h-index: 17; i10-index: 26

### LANGUAGES

Swiss German (native), German (fluent), English (fluent; IELTS band score 8, Sept 2019), French (good), Italian (good), Spanish (basic)

### EDUCATION

24/05/2007 **Doctor of Sciences** ETH Zürich (Dr.sc. ETH Zürich)  
 01/11/2002 – 31/12/2006 **PhD student**, Department of Aquatic Ecology, Eawag: Swiss Federal Institute of Aquatic Science and Technology and ETH: Swiss Federal Institute of Technology Zürich, Switzerland  
 18/12/2002 **Didactic certificate**  
 01/10/2000 – 30/09/2002 **Master of Advanced Studies** in Secondary and Higher Education, ETHZ, Switzerland  
 15/11/2000 **Diploma of Natural Sciences** ETHZ (Dipl. Natw. ETH), with distinction  
 01/10/1996 – 30/09/2000 **Studies in Biology**, ETHZ, Switzerland including diploma thesis at the Department of Aquatic Ecology, Eawag, Switzerland

### CURRENT POSITION

01/01/2018 – 31/12/2020 **Marie Skłodowska-Curie fellow**, Project SABER CULTURAL: *Safeguarding Biodiversity and Ecosystem seRvices by integrating CULTURAL values in freshwater management: learning from Maori*  
 01/01/2020 – 31/12/2020 **at BC3** – Basque Centre for Climate Change, Bilbao, Spain, Host: Prof. F. Villa  
 01/01/2018 – 31/12/2019 **at the University of Otago**, Department of Zoology, Dunedin, New Zealand, Host: Dr. M. Schallenberg

### PREVIOUS POSITIONS

01/11/2015 – 31/10/2017 **Postdoctoral Research Fellow**, Department of Ecosystem Research, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany  
 01/10/2013 – 31/10/2015 **Alexander von Humboldt Research Fellow**, Department of Biology and Ecology of Fishes, IGB, Berlin, Germany  
 01/10/2012 – 30/09/2013 **IGB Research Fellow**, Department of Biology and Ecology of Fishes, IGB, Berlin, Germany  
 01/08/2011 – 31/07/2012 **Swiss National Science Foundation Research Fellow**, Australian Rivers Institute, Griffith University and University of Queensland, Australia

01/10/2009 – 30/04/2011 **Postdoctoral Research Fellow**, Department of System Analysis, Integrated Assessment and Modelling, Eawag, Switzerland

### SHORT-TERM STAGES AT FOREIGN RESEARCH INSTITUTES

01/01/2016 – 01/03/2016 **Visiting researcher**, University of Otago, New Zealand  
 01/01/2015 – 31/03/2015 **Visiting researcher**, University of Otago, New Zealand  
 01/02/2014 – 30/04/2014 **Visiting researcher**, Australian Rivers Institute, Griffith University, Australia

### DETAILS ON INTERNATIONAL RESEARCH-LEADERSHIP ROLES

**2009-2011: Research-lead in Switzerland (Zürich)** funded through an Eawag Discretionary Fund to develop a framework for ecological river assessment applying multi-criteria decision analysis theory.

**2011-2012: Research-lead in Australia (Brisbane)** funded through the Swiss National Science Foundation to explore systematic and cost-effective river restoration planning, applying the conservation planning software Marxan.

**2012-2013: Research-lead in Germany (Berlin)** funded through the Leibniz-Institute of Freshwater Ecology and Inland Fisheries to develop a cost-effective river restoration plan for the recovery of priority fish species in the Havel-Spree river catchment.

**2013-2015: Research-lead in Germany (Berlin)** funded through the Alexander von Humboldt Foundation to explore the role of cultural values for European freshwater management.

**2016: Research-lead in New Zealand (Hawkes Bay)** funded through the New Zealand Ministry of Business, Innovation and Employment to develop a Bayesian Belief Network for Whakaki Lake together with the local Māori group.

**2017: Lead and co-lead of the modelling work package in Germany (Berlin)** for the Horizon 2020 project 'AQUACROSS' with the main goal to develop and apply a framework to spatially optimize future ecosystem service delivery and biodiversity protection across different aquatic realms.

**2018-2019: Research-lead in New Zealand (Dunedin)** funded through the Marie Skłodowska-Curie program to explore the role of cultural, and cultural indigenous, values in freshwater management.

**2020: Research-lead in the Basque Country (Leioa)** funded through the Marie Skłodowska-Curie program to transfer co-created knowledge from New Zealand to the European freshwater management landscape.

**CAREER BREAKS FROM ACADEMIA:** *After my PhD, I was interested in using my knowledge in the applied sector and joined the Swiss Federal Office for the Environment (FOEN). After being challenged finding compromise solutions for indicator aggregation with representatives from the different cantonal water authorities, I resumed research (supported by a grant from Eawag) in the field of MCDA to find solutions to these and various other issues in environmental decision making. Breaks in research were the following:*

01/10/2007 – 30/09/2009 **Project manager**, FOEN and Eawag, Switzerland  
 01/01/2007 – 30/09/2007 **Scientific manager**, Department of Aquatic Ecology, Eawag, Switzerland

### GRANTS AND FELLOWSHIPS

- PROJECT TITLE:** Cultural values of fresh waters: human-water relationships for sustainable and just freshwater governance. **FINANCIAL ENTITY:** Agencia Estatal de Investigación. **TOTAL AMOUNT:** 10.000 €. **LENGTH:** 01/01/2019-31/12/2019 **PRINCIPAL INVESTIGATOR:** **Simone Langhans**
- PROJECT TITLE:** GLOWABIO - Global freshwater biodiversity, biogeography and conservation (Ref.: J45/2018). **FINANCIAL ENTITY:** Leibniz Association. **TOTAL AMOUNT:** 984.350 €. **LENGTH:** 01/05/2019-30/04/2023. **PRINCIPAL INVESTIGATOR:** Sami Domisch, **CO-INVESTIGATOR:** **Simone Langhans**
- PROJECT TITLE:** AQUATAG – Recreational activities on freshwaters: Dynamics, environmental impacts, social importance and sustainable management (Ref.: 033W046A). **FINANCIAL ENTITY:** Federal Ministry of Education and Research (BMBF). **LENGTH:** 01/03/2019-28/02/2022. **PRINCIPAL INVESTIGATOR:** Markus Venohr. **PARTNER:** **Simone Langhans**
- PROJECT TITLE:** Marie Skłodowska-Curie individual Global Fellowship, SABER CULTURAL – Safeguarding Biodiversity and Ecosystem services by integrating CULTURAL values in freshwater management: learning from Māori (Ref.: 748625). **FINANCIAL ENTITY:** European Commission (H2020). **TOTAL AMOUNT:** 233.000 €. **LENGTH:** 01/01/2018-31/12/2020. **PRINCIPAL INVESTIGATOR:** **Simone**

**Langhans**

4. *PROJECT TITLE*: AQUATAG (part 1) - Mining geotagged data to reveal the links between ecological status and recreational use of freshwater ecosystems. (Ref.: no ref). *FINANCIAL ENTITY*: Leibniz-Institute of Freshwater Ecology and Inland Fisheries Frontiers Fund. *TOTAL AMOUNT*: 30.000 €. *LENGTH*: 01/01/2017-30/06/2017. *PRINCIPAL INVESTIGATOR*: Markus Venohr, *CO-PRINCIPAL INVESTIGATOR*: **Simone Langhans**
5. *PROJECT TITLE*: Facilitating a collaborative management of Lake Whakaki with a focus on cultural Maori-values using Multi-Criteria Decision Analysis techniques (Ref.: no ref). *FINANCIAL ENTITY*: Hawke's Bay Region Council. *TOTAL AMOUNT*: 6.000 NZD. *LENGTH*: 01/01/2016-31/03/2016. *PRINCIPAL INVESTIGATOR*: **Simone Langhans**
6. *PROJECT TITLE*: AQUACROSS - Knowledge, Assessment, and Management for AQUATIC Biodiversity and Ecosystem Services across EU policies (Ref.: GA-642317). *FINANCIAL ENTITY*: European Commission (Horizon 2020-SC5-2014-two-stage). *TOTAL AMOUNT*: 6.343.614 €. *LENGTH*: 01/06/2015-30/11/2018. *PRINCIPAL INVESTIGATOR*: Manuel Lago, *CO-PRINCIPAL INVESTIGATOR*: **Simone Langhans**
7. *PROJECT TITLE*: Envirolink medium advice grant, A transparent decision support framework to optimise opening regimes of intermittently closed and open lakes and lagoons (ICOLLS). *FINANCIAL ENTITY*: NZ Ministry of Business, Innovation and Employment. *TOTAL AMOUNT*: 19.200 NZD. *LENGTH*: 01/01/2015-30/06/2015. *PRINCIPAL INVESTIGATOR*: Marc Schallenberg, *CO-PRINCIPAL INVESTIGATOR*: **Simone Langhans**
8. *PROJECT TITLE*: Money for rivers: a new framework to optimize rehabilitation funds (Ref.: Humboldt Research Fellowship for Experienced Researchers). *FINANCIAL ENTITY*: Alexander von Humboldt Foundation. *TOTAL AMOUNT*: 71.100 €. *LENGTH*: 01/10/2013-31/10/2015. *PRINCIPAL INVESTIGATOR*: **Simone Langhans**
9. *PROJECT TITLE*: Cost-effective rehabilitation planning of sturgeon habitats in the Havel-Spree system (Germany). *FINANCIAL ENTITY*: Leibniz-Institute of Freshwater Ecology and Inland Fisheries. *TOTAL AMOUNT*: 11.000 €. *LENGTH*: 01/04/2013-30/09/2013. *PRINCIPAL INVESTIGATOR*: **Simone Langhans**
10. *PROJECT TITLE*: Improving systematic river rehabilitation planning for Europe under multi-pressure conditions. *FINANCIAL ENTITY*: Leibniz-Institute of Freshwater Ecology and Inland Fisheries. *TOTAL AMOUNT*: 11.000 €. *LENGTH*: 01/10/2012-31/03/2013. *PRINCIPAL INVESTIGATOR*: **Simone Langhans**
11. *PROJECT TITLE*: From ecological river assessment to prioritization in river management: a decision-analytic river network-based approach. *FINANCIAL ENTITY*: Swiss National Science Foundation-fellowship for advanced researchers. *TOTAL AMOUNT*: 52.000 CHF. *LENGTH*: 01/08/2011-31/07/2012. *PRINCIPAL INVESTIGATOR*: **Simone Langhans**
12. *PROJECT TITLE*: New concepts in ecological river assessment. *FINANCIAL ENTITY*: Eawag Discretionary Fund. *TOTAL AMOUNT*: 140.000 CHF. *LENGTH*: 01/10/2009-30/04/2011. *PRINCIPAL INVESTIGATOR*: **Simone Langhans**.

**ACHIEVEMENTS & AWARDS**

- 2020 - **Shortlisted** for the tenure-track position in nature conservation planning at BOKU Vienna
- 2019 - **Co-author** of the **IPCC REPORT 2020 freshwater adaptation chapter**
- 2017 - **Observer** at the 9<sup>th</sup> Meeting of the **Water Governance Initiative, OECD, Paris**  
<http://www.oecd.org/cfe/regional-policy/9thmeetingoftheoecdwatergovernanceinitiative.htm>.
- 2016 - Selected for participating in the **Leibniz-Mentoring programme for highly-qualified women post-docs** to support them on the path to leadership positions and professorships.
  - **Shortlisted** for the position as the **Head of Section for Freshwater Ecology** at NIWA, Oslo, Norway.
  - Selected for participating in an **international collaboration workshop for prospective young researchers** on the topic: "*Perspectives on Water Management in Urban Regions*". Academy of Sciences Leopoldina in Essen, Germany.
  - Travel support for participating at the SCBO conference, Brisbane, Australia. **660 AUD**.
- 2011 - Travel grant for young researchers from the Swiss Academy of Hydrology and Limnology. **800 CHF**
- 2006 - Commission for Oceanography and Limnology, Swiss Academy of Sciences, grant for young scientists. **1.000 CHF**.
- 2005 - Student endowment award from the North American Benthological Society. **2.000 USD**.
  - **Best poster** at the Symposium for European Freshwater Sciences, Krakow, Poland.
  - Student travel grant for participating in conferences received from ETHZ. **1.500 CHF**.
- 2003/4 - Two ETH student travel grants for participating in two conferences (à 2000 CHF). **4.000 CHF**.

**MEMBERSHIPS IN NETWORKS**

- Asociación Ibérica de Limnología: <https://www.limnetica.com/en>. 2020 – present.
- Catchments Otago: <http://www.catchmentsotago.org/researchers-1/>. 2018 – present.
- SMIRES (Science and Management of Intermittent Rivers & Ephemeral Streams): <http://www.smires.eu/network/>. 2018 – present.
- Freshwater Biodiversity Observation Network: <https://geobon.org/bons/thematic-bon/freshwater-bon/>. 2018 – present.
- New Zealand Freshwater Sciences Society: <https://freshwater.science.org.nz/>. 2018 – present.
- Leibniz-Mentoring Alumni: <https://www.leibniz-gemeinschaft.de/en/careers/careers-in-research/taking-on-leadership-positions/leibniz-mentoring.html>. 2018 – present.
- Alexander von Humboldt Foundation Alumni: <https://www.humboldt-foundation.de/entdecken/ueber-die-humboldt-stiftung/alumni-und-netzwerkstrategie-der-alexander-von-humboldt-stiftung>. 2017 – present.
- Australian Society for Limnology. 2011 – 2015.
- Society for Freshwater Science. 2003 – 2015.
- Schweizerische Gesellschaft für Hydrologie und Limnologie (SGHL). 2008 – 2010. Board Member.

**PEER-REVIEWED PUBLICATIONS:** *all of my publications are listed here*

<http://scholar.google.com/citations?user=yKkZo6YAAAAJ>

[https://www.researchgate.net/profile/Simone\\_Langhans/publications](https://www.researchgate.net/profile/Simone_Langhans/publications)

1. He F, Jähnig SC, Wetzig A, **Langhans SD** (2020) The untapped potential of conservation journals to promote freshwater biodiversity. *bioRxiv*. doi: 10.1101/2020.07.21.214288v1.
2. He F, **Langhans SD**, Zarfl C, Wanke R, Tockner K, Jähnig SC (2020) Combined effects of life-history traits and anthropogenic threats on extinction risk of freshwater megafauna. *Conservation Biology*. doi: 10.1111/cobi.13590.
3. Friedrichs M, **Langhans SD**, Hein T, Borgwardt F, Kling H, Jähnig SC (2020) From topography to hydrology - The modifiable area unit problem impacts freshwater species distribution models. *Ecology and Evolution* 10:2956-2968. doi: 10.1002/ece3.6110.
4. Vinuesa R, Azizpour H, Leite I, Balaam M, Dignum V, Domisch S, Felländer A, **Langhans SD**, Tegmark M, Fuso Nerini F (2020) The role of artificial intelligence in achieving the Sustainable Development Goals. *Nature Communications* 11:233. doi:10.1038/s41467-019-14108-y.
5. von Schiller D, Datry T, Corti R, Foulquier A, Tockner K, Marcé R, García-Baquero G, Odriozola I, Obrador B, Elosegi A, Mendoza-Lera C, Gessner MO, Stubbington R, Albariño R, Allen DC, Altermatt F, Arce MI, Arnon S, Banas D, Banegas-Medina A, Beller E, Blanchette ML, Blanco-Libreros JF, Blessing J, Boëchat IG, Boersma KS, MBogan MT, Bonada N, Bond NR, Brintrup K, Bruder A, Burrows RM, Cancellario T, Carlson SM, Cauvy-Fraunié S, Cid N, Danger M, de Freitas Terra B, Dehedin A, De Girolamo AM, del Campo R, Díaz-Villanueva V, Duerdoth CP, Dyer F, Faye E, Febria C, Figueroa R, Four B, Gafny S, Gómez R, Gómez-Gener LI, Graça MAS, Guareschi S, Gücker B, Hoppeler F, Hwan JL, Kubheka S, Laini A, **Langhans SD**, Leigh C, Little CJ, Lorenz S, Marshall J, Martín EJ, McIntosh A, Meyer EI, Miliša M, Mlambo MC, Moleón M, Morais M, Negus P, Niyogi D, Papatheodoulou A, Pardo I, Pařil P, Pešić V, Piscart C, M. Polásek M, Rodríguez-Lozano P, Rolls RJ, Sánchez-Montoya MM, Savić A, Shumilova O, Steward A, Taleb A, Uzan A, Vander Vorste R, Waltham N, Woelfle-Erskine C, Zak D, Zarfl C, Zoppini A (2019) Sediment respiration pulses in intermittent rivers and ephemeral streams. *Global Biogeochemical Cycles* 33:1251-1263. doi: 10.1029/2019GB006276.
6. Schuwirth N, Kneis D, Martínez-López J, Friedrichs M, **Langhans SD**, Vermeiren P, Kueimmerlen M, Kattwinkel M, Borgwardt F, Domisch S (2019) How to make ecological models useful for environmental management. *Environmental Modelling & Software* 411:108784.
7. **Langhans SD**, Jähnig SC, Lago M, Schmid-Kloiber A, Hein T (2019) Editorial: The potential of ecosystem-based management to integrate biodiversity conservation and ecosystem service provision in aquatic ecosystems. *Science of the Total Environment* 672:1017-1020. doi:10.1016/j.scitotenv.2019.04.025.
8. **Langhans SD**, Domisch S, Balbi S, Delacámara G, Gomez CM, Hermoso V, Martínez-López J, Schuwirth N, Vermeiren P, Villa F, Jähnig SC (2019) Combining eight research areas to foster the uptake of ecosystem-based management in fresh waters. *Aquatic Conservation: Marine and Freshwater Ecosystems* 29:1161-1173. doi:10.1002/aqc.3012.
9. Shumilova O, Tockner K, Righetti M, **Langhans SD**, Lucía A, Zarfl C (2019) Floating organic matter: A key component controlling the ecological and geomorphic integrity of rivers. *Aquatic Sciences* 81:25. doi:10.1007/s00027-019-0619-2.
10. Domisch S, Friedrichs M, Hein T, Pletterbauer F, Wetzig A, Jähnig SC, **Langhans SD** (2019) Spatially-explicit

- species distribution models: a missed opportunity in conservation planning? *Diversity and Distributions* 25:758-769. doi:10.1111/ddi.12891.
11. Shumilova, O, Zak D, Datry T, von Schiller D, Corti R, Foulquier A, Obrador B, Tockner K, Altermatt F, Arce MI, Arnon S, Banas D, Banegas-Medina A, Beller E, Blanchette M, Blanco-Libreros JF, Blessing J, Boëchat I, Boersma K, Bogan MT, Bonada N, Bond N, Brintrup K, Bruder A, Burrows R, Cancellario T, Carlson SM, Cauvy-Fraunié S, Cid N, Danger M, de Freitas B, Terra B, De Girolamo AM, del Campo R, Dyer F, Elozegi A, Emile F, Febria C, Figueroa R, Four B, Gessner MO, Gnohossou P, Cerezo RG, Gómez-Gener L, Graça MAS, Guareschi S, Gücker B, Hwan JL, Kubheka S, **Langhans SD**, Leigh C, Little C, Lorenz S, Marshall J, McIntosh A, Mendoza-Lera C, Meyer EI, Miliša M, Mlambo MC, MMoleón M, Negus P, Niyogi D, Papatheodoulou A, Pardo I, Paril P, Pešić V, Rodríguez-Lozano P, Rolls RR, Maria Sánchez-Montoya M, Savić A, Steward A, Stubbington R, Taleb A, Vander Vorste R, Waltham N, Zoppini A, Zarfl C (2019) Simulating rewetting events in intermittent rivers and ephemeral streams: a global analysis of leached nutrients and organic matter. *Global Change Biology*. doi:10.1111/gcb.14537.
  12. Domisch, S, Jähnig SC, Kakouei K, **Langhans SD**, Martínez-Lopez J, Bagstad KJ, Magrach A, Balbi S, Villa F, Funk A, Hein T, Borgwardt F, Hermoso V (2019) Social equity shapes zone selection: Balancing aquatic biodiversity conservation and ecosystem services delivery in the transboundary Danube River Basin. *Science of the Total Environment* 656:797-807. doi:10.1016/j.scitotenv.2018.11.348.
  13. Barbosa A, Martín B, Hermoso V, Arévalo-Torres J, Barbière J, Martínez-López J, Domisch S, **Langhans SD**, Balbi S, Villa F, Delacámara G, Teixeira H, Nogueira AJA, Lillebø AI, Gil-Jiménez Y, Iglesias-Campos A (2019) Cost-effective restoration and conservation planning in Green and Blue Infrastructure designs. A case study on the Intercontinental Biosphere Reserve of the Mediterranean: Andalusia (Spain) – Morocco. *Science of the Total Environment* 652:1463-1473. doi:10.1016/j.scitotenv.2018.10.416.
  14. Friedrichs M, Hermoso V, Bremerich V, **Langhans SD** (2018) Evaluation of habitat protection under the European Natura 2000 conservation network – The example of Germany. *PlosOne*. 13(12): e0208264. doi:10.1371/journal.pone.0208264.
  15. **Langhans SD**, Jähnig SC, Schallenberg M (2018) On the use of multicriteria decision analysis to formally integrate community values into ecosystem-based freshwater management. *River Research and Applications*. doi:10.1002/rra.3388
  16. He F, Bremerich V, Zarfl C, Geldmann J, **Langhans SD**, David JNW, Darwall W, Tockner K, Jähnig SC (2018) Freshwater megafauna diversity: Patterns, status and threats. *Diversity and Distributions*. doi:10.1111/ddi.12780.
  17. Datry T, Foulquier A, Corti R, von Schiller D, Tockner K, Mendoza-Lera C, Clément JC, Gessner MO, Moleón M, Stubbington R, Gücker B, Albariño R, Allen DC, Altermatt F, Arce MI, Arnon S, Banas D, Banegas-Medina A, Beller E, Blanchette ML, Blanco-Libreros JF, Blessing JJ, Boëchat IG, Boersma KS, Bogan MT, Bonada N, Bond NR, Brintrup Barría KC, Bruder A, Burrows RM, Cancellario T, Canhoto C, Carlson SM, Cauvy-Fraunié S, Cid N, Danger M, de Freitas Terra B, De Girolamo AM, de La Barra E, del Campo R, Diaz-Villanueva VD, Dyer F, Elozegi A, Faye E, Febria C, Four B, Gafny S, Ghate SD, Gómez R, Gómez-Gener L, Graça MAS, Guareschi S, Hoppeler F, Hwan JL, Jones JI, Kubheka S, Laini A, **Langhans SD**, Leigh C, Little CJ, Lorenz S, Marshall JC, Martín E, McIntosh AR, Meyer EI, Milisa M, Mlambo MC, Morais M, Moya N, Negus PM, Niyogi DK, Papatheodoulou A, Pardo I, Paril P, Pauls SU, Pesic V, Polásek M, Robinson CT, Rodríguez-Lozano P, Rolls RJ, Sánchez-Montoya MM, Savić A, Shumilova O, Sridhar KR, Steward AL, Storey R, Taleb A, Uzan A, Vander Vorste R, Waltham NJ, Woelfle-Erskine C, Zak D, Zarfl C, Zoppini A (2018) A global analysis of terrestrial plant litter dynamics in non-perennial waterways. *Nature Geoscience*. doi:10.1038/s41561-018-0134-4.
  18. Venohr M, **Langhans SD**, Hölker F, Arlinghaus R, Mitchell L, Wolter C (2018) The underestimated dynamics and impacts of water-based recreational activities on freshwater ecosystems. *Environmental Reviews* 26:199-213. doi:10.1139/er-2017-0024.
  19. Carrizo SF, Jähnig S, Bremerich V, Freyhof J, Harrison I, He F, **Langhans SD**, Tockner K, Zarfl C, Darwall W (2017) Global freshwater megafauna: flagship species under threat. *BioScience* 67:919-927. doi:10.1093/biosci/bix099.
  20. Bruder A, Tonolla D, Schweizer S, Vollenweider S, **Langhans SD**, Wüest A (2016). A conceptual framework for hydropeaking mitigation. *Science of the Total Environment* 568:1204-12. doi:10.1016/j.scitotenv.2016.05.032.
  21. **Langhans SD**, Hermoso V, Gessner J, Wolter C (2016) Coupling systematic planning and expert judgement enhances the efficiency of river restoration. *Science of the Total Environment* 560-561: 266-273. doi:10.1016/j.scitotenv.2016.03.232.

22. **Langhans SD**, Lienert J (2016) Four common simplifications of Multi-Criteria-Decision Analysis do not hold for river rehabilitation. *PlosOne* 11(3):e0150695. doi:10.1371/journal.pone.0150695.
23. Wilson KA, Auerbach NA, Sam K, Magini AG, Moss AS<sup>t</sup>L, **Langhans SD**, Budiharta S, Terzano D, Meijaard E (2016) Conservation research is not happening where it is most needed. *Plos Biology* 14(3):e1002413. doi:10.1371/journal.pbio.1002413.
24. Reichert P, **Langhans SD**, Lienert J, Schuwirth N (2015) The conceptual foundation of environmental decision support. *Journal of Environmental Management* 154:316-332. doi:10.1016/j.jenvman.2015.01.053.
25. **Langhans SD**, Tockner K (2014) Edge effects are important in supporting beetle biodiversity in a gravel-bed river floodplain. *PlosOne* 9(12):e114415. doi:10.1371/journal.pone.0114415.
26. Rolls, R, Leigh C, **Langhans SD** (2014) Improving science through improved acknowledgement of reviewers. *Conservation Biology (Editorial)*. doi: 10.1111/cobi.12418.
27. **Langhans SD**, Tockner K (2014) Is the unsaturated sediment a neglected habitat for riparian arthropods? Evidence from a large gravel-bed river. *Global Ecology & Conservation* 2:129-137. doi:10.1016/j.gecco.2014.08.009.
28. **Langhans SD**, Schuwirth N, Reichert P (2014) The method matters: a guide for indicator aggregation in ecological assessments. *Ecological Indicators* 45:494-507. doi:10.1016/j.ecolind.2014.05.014.
29. **Langhans SD**, Hermoso V, Linke S, Bunn SE, Possingham HP (2014) Cost-effective river rehabilitation planning: optimizing for morphological benefits at large spatial scales. *Journal of Environmental Management* 132:296-303. doi:10.1016/j.jenvman.2013.11.021.
30. **Langhans SD**, Lienert J, Reichert P (2013) How to make river assessments comparable: a demonstration for hydromorphology. *Ecological Indicators* 32:264-275. doi:10.1016/j.ecolind.2013.03.027.
31. Reichert P, Schuwirth, N, **Langhans SD** (2013) Constructing, evaluating and visualizing value and utility functions for decision support. *Environmental Modelling & Software* 46:283-291. doi:10.1016/j.envsoft.2013.01.017.
32. **Langhans SD**, Richard U, Rueegg J, Uehlinger U, Edwards P, Doering M, Tockner K (2013) Environmental heterogeneity affects input, storage, and transformation of course particulate organic matter in a floodplain mosaic. *Aquatic Sciences* 75:335-348. doi:10.1007/s00027-012-0277-0.
33. **Langhans SD**, Tiegs SD, Gessner MO, Tockner K (2008) Leaf decomposition heterogeneity across a riverine floodplain mosaic. *Aquatic Sciences* 70:337-346. doi:10.1007/s00027-008-8062-9.
34. Tiegs SD, **Langhans SD**, Tockner K, Gessner MO (2007) Cotton strips as a leaf surrogate to measure decomposition in river floodplain habitats. *Journal of the North American Benthological Society* 26:70-77. doi: 10.1899/0887-3593(2007)26[70:CSAALS]2.0.CO;2.
35. **Langhans SD**, Tiegs SD, Uehlinger U, Tockner K (2006) Environmental heterogeneity controls organic-matter dynamics in river-floodplain ecosystems. *Polish Journal of Ecology* 54:675-680.
36. **Langhans SD**, Tockner K (2006) The role of timing, duration, and frequency of inundation in controlling leaf litter decomposition in a river-floodplain ecosystem (Tagliamento, northeastern Italy). *Oecologia* 147:501-509. doi:10.1007/s00442-005-0282-2.

#### **PUBLICATIONS/BOOK CHAPTERS IN PREPARATION AND SUBMITTED**

37. **Langhans SD**, Schallenberg M (in prep) Co-creation of freshwater management plans: the case study of Lake Wanaka in New Zealand.
38. **Langhans SD**, Flack B, Hepburn C, Schallenberg M (in prep) Cultural values for freshwater management: prominence, sensitivity and importance in two case studies in New Zealand.
39. Steward A, Datry T, **Langhans SD**, Corti R (in prep) The intermittent river and ephemeral stream (IRES) habitat continuum model. Prepared for *Biological Reviews*.
40. Jähnig SC, Jardine T, Pusch M, Scholz M, Tharme R, Wantzen M, **Langhans SD** (in prep) Ecosystem services of river systems - undervalued, irreplaceable, and at risk. In: Tockner K, Mehner T etc. (eds), *Encyclopedia of Inland Waters* (2<sup>nd</sup> edition).

#### **BOOK CHAPTERS & THESES**

- Delacámara G, O'Higgins T, Lago M, **Langhans SD** (2020) Ecosystem-Based Management: Moving from Concept to Practice. In: O'Higgins T, Lago M, & DeWitt T (eds), *Ecosystem-Based Management, Ecosystem Services and Aquatic Biodiversity: Theory, Tools, and Applications*, Springer. pp. 39-60. doi: 10.1007/978-3-030-45843-0.
- Steward AL, **Langhans SD**, Corti R, Datry T (2017) The biota of intermittent rivers and ephemeral streams - Terrestrial and semi-aquatic invertebrates. In: Datry T, Bonada N, Boulton A (eds), *Intermittent River Ecology and Management*, Elsevier. pp. 245-271.

- Langhans SD** (2006) Riverine floodplain heterogeneity as a controller of organic matter dynamics and terrestrial invertebrate distribution. PhD thesis, ETHZ, Switzerland.
- Langhans SD**, Tockner K (2005) Limnological characteristics of the Fiume Tagliamento. In: Tagliamento due sponde sul fiume - Guida storica e tecnica die un tratto del medio corso. Spilimbergo, Italy
- Langhans SD** (2002) Floating organic debris: Indicator of ecological integrity in an Italian floodplain (Tagliamento) (in German). Diploma thesis, ETHZ, Switzerland.

## REPORTS, POLICY BRIEFS, PUBLICATIONS IN PRACTITIONERS' JOURNALS

- Friedrichs M, **Langhans SD**, Hein T, Borgwardt B, Kling H, Jähnig SC, Domisch S (2020). Art-Areal - Modellierung für Fischarten im Einzugsgebiet der oberen Donau - Theoretische Aspekte zur Interpretation der Projektionen. *Wasserwirtschaft*.
- Perkins C, Mueller T, Boyens N, **Langhans SD** (2019) Upper Clutha Community Catchment Plan. Prepared for Wai Wanaka. Landpro, New Zealand.
- Muller T, Boyens N, Perkins C, **Langhans SD** (2019) Upper Clutha Water Quality. Literature Review. Funded by the Upper Clutha Lakes Trust – Wanaka Water Project. First Edition August 2019. Landpro, New Zealand.
- Domisch S, **Langhans SD**, Hermoso V, Jähnig SC, Martínez-López J, Balbi S, Villa F, Schuwirth N, Reichert P, Kuemmerlen M, Vermeiren P, Robinson L, Culhane F, Nogueira A, Teixeira H, Lillebo A, Funk A, Pletterbauer F, Trauner D, Hein T, Schlüter M, Martin R, Fryers Hellquist K, Delacámara G, Gómez CM, Piet G, van Hal R (2017) Guidance on methods and tools for the assessment of projected impacts of drivers of change on biodiversity, ecosystems functions and aquatic ecosystems service delivery; teaching modules for the individual modelling approaches: AQUACROSS Deliverable 7.1, European Union's Horizon 2020 Framework Programme for Research and Innovation Grant Agreement No. 642317.
- Berger V, Fan F, Gabel F, Galvão P, Gies M, Grabner D, **Langhans SD**, Machado A, Manzione R, Matta E, Andreu A, de Moraes M, Morihama A, Macedo-Moura P, de Paiva A, Periotto N, Porst G, Rigotto C, Roters B, Schulz S, Silva T, de Sousa M, Suhogusoff A, Wahnfried I, Wolf C (2017) How Do We Want to Live Tomorrow? Perspectives on Water Management in Urban Regions. German National Academy of Sciences Leopoldina, Brazilian Academy of Sciences, Centre for Water and Environmental Research at the University of Duisburg-Essen (Publishers); Halle/Saale, Rio de Janeiro, Essen.
- Langhans SD**, Gessner J, Wolter C (2017) Fließgewässer effizienter renaturieren: Neue Planungshilfe optimiert Kosten und Nutzen für Biodiversität. *Wasserwirtschaft (10)3: 151-156*.
- Nogueira A, Lillebø A, Teixeira H, Daam M, Robinson L, Culhane F, Delacámara G, Gómez CM, Arenas M, **Langhans SD**, Martínez-López J, Funk A, Reichert P, Schuwirth N, Vermeiren P, Mattheiß V (2016) Guidance on methods and tools for the assessment of causal flow indicators between biodiversity, ecosystem functions and ecosystem services in the aquatic environment. Deliverable 5.1. European Union's Horizon 2020 Framework Programme for Research and Innovation Grant Agreement No. 642317.
- Gómez CM, Gonzalo Delacámara, Jähnig SC, **Langhans SD**, Domisch S, Hermoso V, Piet GJ, Martínez-López J, Lago M, Boteler B, Rouillard J, Abhold K, Reichert P, Schuwirth N, Hein T, Pletterbauer F, Funk A, Nogueira A, Lillebø AI, Daam M, Teixeira H, Robinson L, Culhane F, Schlüter M, Martin R, Iglesias-Campos A, Barbosa AL, Arévalo-Torres J, O'Higgins T (2016) Developing the AQUACROSS Assessment Framework. Deliverable 3.2. European Union's Horizon 2020 Framework Programme for Research and Innovation grant agreement No. 642317.
- Gómez CM, Delacámara G, Arévalo-Torres J, Barbière J, Barbosa AL, Boteler B, Culhane F, Daam M, Gosselin MP, Hein T, Iglesias-Campos A, Jähnig S, Lago M, **Langhans SD**, Martínez-López J, Nogueira A, Lillebø A, O'Higgins T, Piet G, Pletterbauer F, Pusch M, Reichert P, Robinson L, Rouillard J, Schlüter M (2016) The AQUACROSS Innovative Concept. Deliverable 3.1, European Union's Horizon 2020 Framework Programme for Research and Innovation grant agreement No. 642317.
- Schallenberg M, **Langhans SD** (2015). Collaborative Decision Support Framework for Managing Whakaki Lake. Phase 1: Ecological Information. Prepared for the Hawkes Bay Regional Council with funding from Envirolink grant 1577-HBRC213
- Langhans SD**, Reichert P (2011) Einbettung von Verfahren zur Fließgewässerbewertung in ein übergeordnetes Gewässermanagementkonzept. Vorschläge am Beispiel des Modulstufenkonzepts. *Wasser Energie Luft* 103(2): 139-148.
- Reichert P, Schuwirth N, **Langhans SD** (2011) MCWM – Ein Konzept für multikriterielle Entscheidungsunterstützung im Wassermanagement. *Wasser Energie Luft* 103(1): 139-148.
- Liechti et al (2010) Methoden zur Untersuchung und Beurteilung der Fließgewässer. Chemisch-physikalische Erhebungen, Nährstoffe. Umwelt-Vollzug Nr. 1005. Bundesamt für Umwelt, Bern.

- Stucki et al (2010) Methoden zur Untersuchung und Beurteilung der Fließgewässer. Makrozoobenthos Stufe F. Umwelt-Vollzug Nr. 1026. Bundesamt für Umwelt, Bern.
- Baumann P, **Langhans SD** (2010) Methoden zur Untersuchung und Beurteilung der Fließgewässer. Synthese der Beurteilungen auf Stufe F. Entwurf. Umwelt-Vollzug. Bundesamt für Umwelt, Bern.
- Weber C, Göggel W, **Langhans SD** (2008) Aufwertungen in Fließgewässern planen: Die Methode „Ökomorphologie Stufe S“. *Ingenieurbiologie* 3: 4-8.
- Langhans SD**, Weber C, Göggel W (2008) D'une méthode à l'autre vers une évaluation intégrale des cours d'eau. *Bulletin de l'ARPEA* 238: 5-11.
- Kunz Y, Pohl J, Langhans SD (2007) Uferbezogene Indikatoren - Neue Ansätze zur Fließgewässerbewertung. *Wasser Energie Luft* 99(1).
- Trottmann N, **Langhans SD**, Tockner K (2006) Schwemmgut als Ausbreitungsmedium. Das Innenleben eines unterschätzten Naturstoffs. *Wasser Energie Luft* 98(3): 207-213.
- Trottmann N, **Langhans SD**, Tockner K (2005) Schwemmgut, ein wichtiger Weg der Ausbreitung. *Natur und Mensch* 5: 8-11.
- Trottmann N, **Langhans SD**, Tockner K (2004) Schwemmgut als Ausbreitungsmedium – das Innenleben eines unterschätzten Naturstoffs. Eawag Jahresbericht.
- Tockner K, **Langhans SD** (2003) Die ökologische Bedeutung des Schwemmgutes. *Wasser Energie Luft* 95(11/12): 353- 354.

## R-PACKAGES

'ecoval' (September 2018). <https://cran.r-project.org/web/packages/ecoval/ecoval.pdf>

## INVITED PRESENTATIONS

- 2020 - *What values should we place on water? – an Upper Clutha study perspective*. Upper Clutha U3A's H2040 The Future of Water Series, Wanaka, New Zealand (forthcoming; virtual presentation due to covid-19)
- 2019 - *SABER CULTURAL: Safeguarding Biodiversity and Ecosystem services by integrating CULTURAL values in freshwater management: learning from Aotearoa New Zealand*. Australian Rivers Seminar Series, Brisbane, Australia.
- *Multi criteria decisions to manage lake and fresh waters*. LERNZ symposium, Hamilton, New Zealand. Plenary talk.
- 2017 - *Potential uses of optimization techniques for the German-wide river restoration programme "Blaues Band"*. Federal Institute of Hydrology, Koblenz, Germany. Plenary talk.
- *Ecological consequences of recreational use in freshwater ecosystems: the knowns and unknowns*. AQUATAG-Stakeholder Workshop, Berlin, Germany.
- *Optimising river restoration planning*. Deutsche Umwelthilfe e.V., Berlin, Germany.
- *Restoring rivers more efficiently – a new planning tool*. Political lunch debate on the German-wide river restoration programme "Blaues Band", Berlin, Germany. Plenary talk.
- 2016 - *Community driven decision making: Multi-Criteria Decision Making for freshwater management*. Centre for Climate Change, Bilbao, Spain.
- *Systematic, cost-effective restoration planning – or – How I tweaked Marxan for restoration planning*. Basque Centre for Climate Change, Bilbao, Spain.
- Lead and facilitation of the freshwater break-out group with international freshwater experts, 1<sup>st</sup> AQUACROSS-Forum, Alcalá, Spain.
- Presentation of WP7-progress and outcomes at the AQUACROSS-consortium meeting, Alcalá, Spain.
- 2015 - *Community-driven decision making: A way forward for the management of Lake Wanaka?* University of the 3rd Age, Wanaka, New Zealand.
- *Community-driven decision making: A way forward for Lake Whakaki?* Invited presentation and workshop facilitation, Water hui, Hawkes Bay, New Zealand.
- *Multi-Criteria Decision Analysis (MCDA) in River Management*. Freshwater group seminar series, University of Otago, Dunedin, New Zealand.
- 2014 - *What is right for me? Pros and cons of an academic vs. a non-academic career*. IGB, PhD-workshop, Frauensee, Germany.
- *Money for rivers: the interplay of actions, costs and ecological benefits in optimising river rehabilitation plans*. University of Otago, Dunedin, New Zealand.
- 2013 - *Let's make a plan: Linking costs and ecological benefits to optimize river management*. Researchers Forum Smart Cities and Urban Technologies, InnoZ, Berlin, Germany.



- *Optimizing river rehabilitation planning: Heidi meets Crocodile Dundee*. IGB Seminar Series, Berlin, Germany.
- 2012 - *Local to national: the capacity for increasing the spatial scale of monitoring*. ACEAS workshop on Challenges and future directions, Brisbane, Australia.
- 2011 - *Decision analysis meets river management. A new approach to ecological river assessment*. Aquatic biodiversity international conference, Sibiu, Romania (declined due to moving to Australia). Plenary talk.
- *From riverine floodplain ecology to integrative river management - or - How I made it to Australia*. Australian Rivers Institute Seminar Series, Brisbane, Australia.
- *Systematic planning for river rehabilitation: Heidi meets Crocodile Dundee*. Annual Forum of the Australian Rivers Institute, Brisbane, Australia.
- *Systematic planning for river rehabilitation: Heidi meets Crocodile Dundee*. Institute of Biogeography, Basel, Switzerland.
- 2010 - *A decision-theoretic approach to ecological stream assessment*. IGB Seminar Series, Berlin, Germany.

#### **TALKS AT CONFERENCES & SEMINARS: during the last five years**

- 2020 - *Te mana o te Wai: Protecting, managing and restoring fresh waters in New Zealand*. Iberian Association of Limnology, Murcia, Spain (forthcoming; virtual presentation due to covid-19).
- *Where have all the whales gone? With KYMA on a search in the Mediterranean*. Lunch seminar, BC3, Bilbao, Spain
- *Managing a better future for fresh waters and people - learning from New Zealand*. Lunch seminar, BC3, Bilbao, Spain
- 2019 - *Cultural values for freshwater management: learning from New Zealand*. SEFS 11, Zagreb, Croatia
- 2018 - *Eight research areas that could foster ecosystem-based management in fresh waters, if combined*. NZFSS, Nelson, New Zealand
- *Eight current research developments may benefit freshwater biodiversity through championing ecosystem-based management, if combined*. ESP Europe, San Sebastian, Spain
- *Eight current research developments may benefit freshwater biodiversity through championing ecosystem-based management, if combined*. Society for Conservation Biology 5<sup>th</sup> Oceania Congress, Wellington, New Zealand
- *Managing ecosystems for people and the environment: a watershed moment for New Zealand's freshwaters?* Lunch seminar, University of Otago, Dunedin, New Zealand
- 2017 - *Jointly accounting for biodiversity and ecosystem services for optimizing freshwater management: a projection & optimization framework*. Symposium for European Freshwater Science, Olomouc, Czech Republic
- 2016 - *Where have Europe's free flowing rivers gone? Restoring towards better connectivity*. Society for Conservation Biology 4<sup>th</sup> Oceania Congress, Brisbane, Australia
- 2015 - *The method matters: A guide for indicator aggregation in ecological assessments*. Symposium for European Freshwater Science, Geneva, Switzerland (talk).

#### **SUPERVISION OF GRADUATE STUDENTS/ INTERNS AND HOSTING VISITING SCIENTISTS**

##### **Visiting scientists**

- 2018 Dr. Stéfani Novoa (San Sébastian, Spain). Visiting scientist: *Use of remote sensing data for reconstructing the history of macroalgal blooms in the Blueskin Bay estuary*. Nov – Dec 2018.

##### **PhD students**

- 2020 Laura Basconi (Ca' Foscari University of Venice, Italy). PhD thesis: *Mapping marine ecosystem services in the Adriatic Sea*. BC3 visit from 1/8/2020 – 30/11/2020 (forthcoming).
- 2020-23 Julia Neidig (BC3 – Basque Centre for Climate Change, Leioa, Spain). PhD thesis: *Relational VALues in Urban Environments (REVALUE): A transdisciplinary approach*.
- 2018-20 Martin Friedrichs (IGB and Free University, Berlin, Germany). PhD thesis: *Uncertainties in species distribution models: effects of spatial and temporal scales on future predictions*.
- 2016-19 Fengzhi He (IGB and Free University, Berlin Germany). PhD thesis: *Biodiversity patterns and conservation of freshwater megafauna*.

##### **MSc students**

- 2017 Roland Wanke (IGB and Free University, Berlin, Germany). Master thesis: *Biological and ecological traits of freshwater megafauna. Data synthesis and analysis*.

- 2016 Martin Friedrichs (IGB and Free University, Berlin, Germany). Master thesis: *Effectiveness of the conservation network Natura 2000 to protect Europe's habitat diversity*.
- 2006 Janina Pohl (University of Karlsruhe). Master thesis: *Ecology of gravel bars*.
- 2006 Yvonne Kunz (Eawag/ETHZ, Switzerland). Master thesis: *Ecology of gravel bars*.

**BSc students**

- 2010 Andrin Fink (Eawag/ETHZ, Switzerland). Bachelor thesis: *A decision-theoretic approach to chemical stream assessment*.
- 2005 Erika Van Daalen (Eawag/ETHZ, Switzerland). Master thesis: *Geomorphology of braided rivers*.

**Interns and summer students**

- 2019 Xuhong Chai (University of Otago, New Zealand). Summer student: *Disentangling Ulva dynamics in the Blueskin Bay estuary using satellite images*. Nov 2019 – Feb 2020.
- 2018 Dominique Harrison (University of Otago, New Zealand). Summer student: *Blueskin Bay data search*. Nov 2018 – Feb 2019.
- 2018-19 Marion Caduff (ETHZ, Switzerland). Internship: *Blueskin Bay community collaboration to develop a catchment management plan*. Sep 2018 – Feb 2019.
- 2018 Ingrid Thyr (Williams College, Massachusetts, USA). Internship: *Trilogy of podcasts: A lake at a crossroads*. June – July 2018.
- 2015 Roland Wanke, (Free University, Berlin, Germany). Internship: *Freshwater cultural values*.

**TEACHING ACTIVITIES (LECTURES & WORKSHOPS)**

- 2020 - Teaching high school students about climate change within the BC3 Training Caravan initiative (<https://trainingcaravan.bc3research.org/>), Bilbao, Spain (cancelled due to covid-19)
- 2019 - Teaching MCDA theory and applications at the Australian Rivers Institute, Brisbane, Australia  
- Teaching MCDA theory and applications during the SEFS 11 conference, Zagreb, Croatia
- 2018 - Teaching MCDA theory and applications during the NZFSS conference, Nelson, NZ
- 2017 - *Biodiversity & Conservation Planning* within the MSc course *Evolution and Biodiversity I*, Free University, Berlin  
- Introduction to the MSc course *Biodiversity in selected ecosystems: Rivers in the secondary mountains*, Free University, Berlin
- 2016 - *Water resources and water bodies in the Anthropocene and Conservation planning and prioritization* within the MSc course "*Current topics in Freshwater Ecology*", Free University, Berlin, Germany  
- *River restoration: Basics and systematic planning* within the MSc course *Biodiversity in selected ecosystems: Rivers in the secondary mountains*, Free University, Berlin  
- *Conservation planning and prioritization* within the MSc course *Current topics in Freshwater Ecology*, Free University, Berlin
- 2015 - *Conservation planning and prioritization* within the MSc course *Current topics in Freshwater Ecology*, Free University, Berlin  
- *River restoration/planning* within the course *Biologisches Vertiefungsmodul Zoologie*, Free University, Berlin
- 2014 - *Biodiversity & Conservation Planning* within the MSc course *Evolution and Biodiversity I*, Free University, Berlin
- 2003-6 - Bachelor and master courses in applied-statistics, systematics and ecology of benthic invertebrates and field methods in stream ecology. Eawag and ETHZ, Switzerland
- 2000-2 - German teacher for foreigners at H.B.S. Handels- und Bürofach-Schule Rapperswil, Switzerland

**COMMUNITY SERVICE**

- *Guest editor*. Special Issue in Science of the Total Environment, 2018.
- *Scientific external reviewer*. 2017 joint Belmont Forum / BiodivERsA call for proposals on "Biodiversity Scenarios". 2019 National Science Centre Poland, Sonatina 3 call for post-doctoral grants. 2020 ICRA Peer Evaluation Request.
- *Reviewer for the following peer-reviewed journals*: Journal of Environmental Management, PeerJ, Ecological Applications, PlosOne, Oecologia, Ecosystems, Marine & Freshwater Research, Hydrobiologia, Archiv für Hydrobiologie, River Systems, Aquatic Sciences, Canadian Journal of Fisheries and Aquatic Sciences, European Journal of Entomology, Riparian Ecology and Conservation, International Review of Hydrobiology, Ecological Indicators, Landscape and Ecological Engineering, Journal of Insect

Conservation, American Water Resource Association, Aquatic Conservation: Marine and Freshwater Ecosystems, Inland Waters, Water and Environment Journal

- *Conference organisation*: Alter-Net conference 2017; Nature and society: synergies, conflicts, trade-offs; Ghent, Belgium; Integrated Water Management Forum 2007, Kartause Ittingen, Switzerland

## MEDIA OUTREACH

- 2020 Short video in which I explain my work within the ARIES-group at the BC3-Basque Centre of Climate Change. [https://twitter.com/aries\\_project/status/1280769105436475392](https://twitter.com/aries_project/status/1280769105436475392)
- 2019 Art and Science Series seventh exhibition “*Art and Water: Mountains to the Sea*”. Collaboration with photographer Annemarie Hope-Cross who created a piece of art expressing my research. <https://otagomuseum.nz/whats-on/do/programme-and-events/event/art-and-water>  
My research on developing a co-management plan for Lake Wanaka featured on the Wanaka app (February 2019) as well as in The News “Freshwater’s cultural value to be assessed” (February 7, 2019). <http://www.thenews.co.nz/community/freshwaters-cultural-value-to-be-assessed/>  
The research of my Master student M. Friedrichs featured in the news section of the Federal Ministry of Education and Research “Protected habitats” (March 15, 2019). [http://www.research-in-germany.org/news/2019/3/2019-03-15\\_Protected\\_habitats](http://www.research-in-germany.org/news/2019/3/2019-03-15_Protected_habitats)  
The same study featured in Science daily “Good news: Habitats worthy of protection in Germany are protected, study finds” (February 21, 2019). <https://www.sciencedaily.com/releases/2019/02/190221122948.htm>
- 2018 Podcast trilogy called “A Lake at a Crossroads” highlighting topics around collaborative management of Lake Wanaka, produced together with my intern I. Thyr (August 1, 2018) <https://soundcloud.com/ingrid-thyr>  
Our research on “Managing multiple pressures from recreational activities on freshwater ecosystems” discussed on The Freshwater Blog (March 4, 2018) <https://freshwaterblog.net/2018/03/04/managing-multiple-pressures-from-recreational-activities-on-freshwater-ecosystems/>
- 2016 Release of a song and music video about my research published in Science of the Total Environment (2016) produced in collaboration with the Swiss Band Knuts Koffer (January 14, 2016). [https://www.youtube.com/watch?v=6MJkQOao\\_dw](https://www.youtube.com/watch?v=6MJkQOao_dw)  
Interview with the lead singer and composer of Knuts Koffer and myself in the The Freshwater Blog (February 10, 2016). <http://freshwaterblog.net/2016/02/10/flusssfish-creative-freshwater-science-communication-through-song/>  
Premiere of the music video during the Flussfilmfest in the movie theater Movimiento in Berlin (January 22-24, 2016): <https://www.grueneliga-berlin.de/flussfilmfest-berlin-im-movimiento-kreuzberg/>  
Article about this art/science collaboration in the Kommunalmagazin “Renaturierung rockt” (February 3, 2016). <http://www.kommunalmagazin.ch/renaturierung-rockt>  
Podcast production from the National Swiss Radio and TV station discussing our article published in PLOS Biology (2016) “Forschung am falschen Ort” (April 2, 2016). <http://www.srf.ch/sendungen/wissenschaftsmagazin/neues-von-umstrittenen-human-brain-project>  
Coverage of the same article in various Blogs:  
PLOS Blog “Is biodiversity research biased? Jeff Atkins on a PLOS Biology paper (April 11, 2016). <http://blogs.plos.org/blog/2016/04/11/is-biodiversity-research-biased/>  
PLOS Ecology Community “Is biodiversity research biased?” (April 11, 2016) <http://blogs.plos.org/ecology/2016/04/11/is-biodiversity-research-biased/>  
ScienceDaily “Conservation research is not happening in the right places” (March 29, 2016). <https://www.sciencedaily.com/releases/2016/03/160329153354.htm>
- 2015 My research featured in the annual IGB Report (in German; p. 46). [https://www.igb-berlin.de/sites/default/files/media-files/download-files/IGB\\_Jahresbericht2015\\_DE\\_WEB\\_0.pdf](https://www.igb-berlin.de/sites/default/files/media-files/download-files/IGB_Jahresbericht2015_DE_WEB_0.pdf)
- 2005 TV production shot for the Swiss Science TV show “Menschen-Technik-Wissenschaft” featuring the Tagliamento River including some of my PhD work (June 23, 2005) <http://www.srf.ch/player/tv/mtw/video/tagliamento-frei-und-ungezaehmt?id=3bd202e6-e473-47b7-8b2f-08024bb95126>

## FURTHER EDUCATION: since 2010

- 2018 - Spring University on Ecosystem Services Modeling, BC3-Basque Centre for Climate Change, Bilbao, Spain

- Maori Culture, HEDC workshop, University of Otago, New Zealand
- Introduction to the Treaty of Waitangi, HEDC workshop, University of Otago, New Zealand
- 2017 - Strategic networking, Leibniz Association, Berlin, Germany
- Professional communication for academics, Leibniz Association, Berlin, Germany
- Self-presentation, Leibniz Association, Berlin, Germany
- Career profiling, Leibniz Association, Berlin, Germany
- 2016 - Competence definition, SMART objective setting, Leibniz Association, Berlin, Germany
- Chances and Challenges of Interdisciplinarity; Leibniz-Kolleg for Young Researchers, Leibniz Association, Berlin, Germany.
- Uncharted waters: business crash course, IGB, Berlin, Germany
- QGIS advanced training course, IGB, Berlin, Germany
- 2015 - Media- and Camera training, IGB, Berlin, Germany
- Advanced statistics: general(ized) linear mixed models, IGB, Berlin, Germany
- 2014 - Spatial multicriteria analysis for environmental decision-making, University of Trento, Italy
- Meeting/workshop tools and moderation, IGB, Berlin, Germany
- 2013 - Programming with R, IGB, Berlin, Germany
- Adobe Illustrator, IGB, Berlin, Germany
- 2012 - Grant writing, Griffith University, Brisbane, Australia
- 2011 - Marxan software application, University of Queensland, Brisbane, Australia
- 2010 - Eawag Summer School in Environmental Systems Analysis, Switzerland

#### **NON-PROFIT COMMITMENT**

since 2008      Scientific guide for whale monitoring sailing cruises involving citizen scientists (<https://www.oceancare.org/en/our-work/research/sicily/>), Golfe Juan (France) and Siracusa (Sicily)