Curriculum Vitae of Dr. Simone D. Langhans

PERSONAL INFORMATION

Family name, First names: **Langhans, Simone Daniela**
Date of birth: **18 September 1976**
Nationality: **Swiss**
My work profile: https://www.bc3research.org/index.php?option=com_researcher&task=view&rese=133&Itemid=345
My current project: https://www.bc3research.org/projects/sabercultural_eu.html
Find me on Twitter @sdlanghans: https://twitter.com/sdlanghans

RESEARCH STATEMENT

I am a freshwater ecologist with interests, experience, and great enthusiasm in aquatic ecology, river restoration, decision support theory and 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 freshwater management.

LANGUAGES

Swiss German (native), German (fluent), English (fluent), French (good), Italian (good), Spanish (basic)

EDUCATION

24/05/2007	**Doctor of Sciences** ETH Zurich (Dr. Sc. ETH Zurich)
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 Zurich, Switzerland
18/12/2002	**Didactic certificate**
01/10/2000 – 30/09/2002	**Master of Advanced Studies** in Secondary and Higher Education, ETH, Switzerland
15/11/2000	**Diploma of Natural Sciences** ETH Zurich (Dipl. Natw. ETH Zurich), with distinction
01/10/1996 – 30/09/2000	**Studies in Biology**, ETH Zurich, Switzerland including diploma thesis at the Department of Aquatic Ecology, Eawag, Switzerland

CURRENT POSITION

01/01/2018 – 31/12/2020 **Marie Skłodowska-Curie fellow,** University of Otago, Dunedin, New Zealand (2018-2019) and BC3-Basque Centre for Climate Change, Bilbao, Spain (2020)

PREVIOUS POSITIONS

01/11/2015 – 31/10/2017 **Postdoctoral fellow,** Department of Ecosystem Research, IGB, Berlin, Germany

Cultural values for European freshwater management: learning from local societies; prioritizing future ecosystem service delivery and biodiversity protection across different aquatic realms

01/10/2013 – 31/10/2015 **Research fellow** supported by the Alexander von Humboldt Foundation, IGB, Department of Biology and Ecology of Fishes; Hosts: Drs. C. Wolter, J. Gessner

Cost-effective river restoration planning for the recovery of priority fish species; validity of simplifications in multi-criteria decision analysis (MCDA) for river restoration (with Dr. J. Lienert, Eawag, Switzerland); biases in conservation research (with Dr. K. Wilson, University of Queensland, Australia); threat and global distribution patterns of freshwater megafauna (with Dr. S. Jähnig, IGB)

01/10/2012 – 30/09/2013 **Visiting postdoctoral fellow** supported and hosted by IGB, Department of Biology and Ecology of Fishes; Host: Dr. C. Wolter

Writing grant proposals; initiating a project on cost-effective restoration planning for sturgeon spawning habitat along the Havel-Spree Rivers (Germany); collaboration with Prof. P. Reichert, Drs. N. Schuwirth and J. Lienert on using MCDA for river assessment and management

01/08/2011 – 31/07/2012 **Visiting postdoctoral fellow** supported by the Swiss National Science Foundation, Australian Rivers Institute, Griffith University and University of Queensland, Australia; Hosts: Profs. S.E. Bunn, H.P. Possingham, Drs. S. Linke, V. Hermoso

Systematic and cost-effective river restoration planning in Switzerland using the conservation planning software Marxan

01/10/2009 – 30/04/2011 **Postdoctoral fellow**, Department of System Analysis, Integrated Assessment and Modelling, Eawag, Switzerland; Supervisor: Prof. P. Reichert

Developing a framework for ecological stream assessment applying MCDA

CAREER BREAKS IN RESEARCH: *After my PhD, I was interested in using my knowledge in the applied sector and joined the Swiss Federal Office for the Environment (FOEN). However, 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

Coordination of the development and implementation of ecological river assessment protocols in Swiss streams across all Swiss cantons; co-development of the macroinvertebrate, nutrient and synthesis assessment protocols

01/01/2007 – 30/09/2007 **Scientific manager,** Eawag, Switzerland

Organisation of the International Water Management Forum, Ittingen, Switzerland

SHORT-TERM STAGES AT FOREIGN RESEARCH INSTITUTES

01/01/2016 – 01/03/2016 **Visiting researcher**, University of Otago, New Zealand; Hosts: Dr. M. Schallenberg and Dr. A. Hicks (Hawkes Bay Regional Council) (2 months)

Preparing interviews/workshops to be held with local Māori and stakeholder groups in Hawkes´ Bay to identify different parameters needed for a decision support framework for managing Whakaki Lake based on the principles of MCDA; preparing manuscript on how to use MCDA for freshwater management in New Zealand

01/01/2015 – 31/03/2015 **Visiting researcher**, University of Otago, New Zealand; Host: Dr. M. Schallenberg (3 months)

Developing a functional link model of ecological players in Whakaki Lake as a basis for future Bayesian Network analysis; identifying ecological values from local Māori for the lake based on principles of MCDA

01/02/2014 – 30/04/2014 **Visiting researcher**, Australian Rivers Institute, Griffith University, Australia; Host: Dr. V. Hermoso (3 months)

Cost-effective restoration planning for eleven priority species along the Havel-Spree Rivers (Germany); collaboration with Drs. R. Rolls (Australian Rivers Institute) and C. Leigh (Irstea, France) on how to better acknowledge reviewers

GRANTS AND FELLOWSHIPS

1. *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**
2. *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**
3. *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**
4. *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 INVESTIGADOR: 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**.

APPOINTMENTS AND AWARDS

2018 - Selected as a **member of Catchments Otago.** http://www.catchmentsotago.org/researchers-1/.
- Selected as a member of **SMIRES** (Science and Management of Intermittent Rivers & Ephemeral Streams). http://www.smires.eu/network/.

2017 - Selected as a **member** of the **Freshwater Biodiversity Observation Network**. http://geobon.org/freshwater-biodiversity-observation-network-fwbon-endorsed-by-geobon-as-a-thematic-bon/.
- **Observer** at the 9th 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. https://www.leibniz-gemeinschaft.de/karriere/wissenschaftlicher-nachwuchs/leibniz-mentoring/mentees-20162017/.
- Interviewed for the open position as the **Head of Section for Freshwater Ecology** at the 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.**

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

1. Friedrichs M, **Langhans SD**, Hein T, Borgwardt F, Kling H Jähnig SC (accepted) From topography to hydrology - The modifiable area unit problem impacts freshwater species distribution models. *Ecology and Evolution.*
2. 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.
3. von Schiller D, Datry T, Corti R, Foulquier A, Tockner K, Marcé R, García-Baquero G, Odriozola I, B. 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 Ll, 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. Polášek 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.*
4. Schuwirth N, Kneis D, Martínez-López J, Friedrichs M, **Langhans SD**, Vermeiren P, Dr Kuemmerlen M, Kattwinkel M, Borgwardt F, Domisch S (2019) How to make ecological models useful for environmental management. *Environmental Modelling & Software* 411:108784.
5. **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.
6. **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* 1-19. doi:10.1002/aqc.3012.
7. 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.
8. 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.
9. 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, Elosegi 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.
10. 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.
11. 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.
12. 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.

13. **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
14. 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.
15. 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, Elosegi 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, Savic 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.
16. 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.
17. 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.
18. 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.
19. **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.
20. **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.
21. Wilson KA, Auerbach NA, Sam K, Magini AG, Moss AStL, **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.
22. 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.
23. **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.
24. Rolls, R, Leigh C, **Langhans SD** (2014) Improving science through improved acknowledgement of reviewers. *Conservation Biology (Editorial).* doi: 10.1111/cobi.12418.
25. **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.
26. **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.
27. **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.
28. **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.
29. 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.

30. **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.
31. **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.
32. 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.
33. **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.
34. **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.

BOOK CHAPTERS & THESES

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 technica 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 (2019). 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 Integrated Catchment Management Plan. Draft version December 2019. 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, Nogueria 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

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 Umwelhilfe 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, 1st AQUACROSS-Forum, Alcala, Spain.

- Presentation of WP7-progress and outcomes at the AQUACROSS-consortium meeting, Alcala, 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.

COMMUNICATIONS AT CONFERENCES: *during the last five years*

2019 - *Cultural values for freshwater management: learning from New Zealand.* SEFS 11, Zagreb, Croatia (talk).

2018 - *Eight research areas that could foster ecosystem-based management in fresh waters, if combined.* NZFSS, Nelson, New Zealand (talk).
- *Eight current research developments may benefit freshwater biodiversity through championing ecosystem-based management, if combined.* ESP Europe, San Sebastian, Spain (talk).
- *Eight current research developments may benefit freshwater biodiversity through championing ecosystem-based management, if combined.* Society for Conservation Biology 5th Oceania Congress, Wellington, New Zealand (talk).
- *Managing ecosystems for people and the environment: a watershed moment for New Zealand's freshwaters?* Lunch seminar, University of Otago (talk).

2017 - *Jointly accounting for biodiversity and ecosystem services for optimizing freshwater management: a projection & optimization framework.* Symposium for European Freshwater Science, Olomouc, Czech Republic (talk).

2016 - *Where have Europe´s free flowing rivers gone? Restoring towards better connectivity.* Society for Conservation Biology 4th Oceania Congress, Brisbane, Australia (talk).

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

2017-19 Martin Friedrichs (IGB and Free University, Berlin, Germany). PhD thesis: *"Uncertainties in species distribution models: effects of spatial and temporal scales on future predictions".*

2016-18 Fenghzi 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. Title: *"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 satellige 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)
2019 - Teaching MCDA theory and applications at the Australian Rivers Institute, Brisbane, Australia (one day workshop)
- Teaching MCDA theory and applications during the SEFS 11 conference, Zagreb, Croatia (half day workshop)
2018 - Teaching MCDA theory and applications during the NZFSS conference, Nelson, NZ (half day workshop)
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 at H.B.S. Handels- und Bürofach-Schule Rapperswil, Switzerland

COMMUNITY SERVICE
- *Co-author IPCC REPORT 2019 freshwater adaptation chapter*. Chapter on adaption measures to mitigate climate change effects in river systems.
- *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".
- *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; 2-5 May, Ghent, Belgium

MEDIA OUTREACH

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

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

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/flussfisch-creative-freshwater-science-communication-through-song/

Premiere of the music video during the Flussfilmfest in the movie theater Moviemento in Berlin (January 22-24, 2016): https://www.grueneliga-berlin.de/flussfilmfest-berlin-im-moviemento-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

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 ECUCATION: *since 2010*

2018 Spring University on Ecosystem Services Modeling (5 days) 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 (2 days), Leibniz Association, Berlin, Germany
Professional communication for academics (2 days), Leibniz Association, Berlin, Germany
Self-presentation (2 days), Leibniz Association, Berlin, Germany
Career profiling (2 days), Leibniz Association, Berlin, Germany

2016 Competence definition, SMART objective setting (2 days), Leibniz Association, Berlin, Germany
Chances and Challenges of Interdisciplinarity; Leibniz-Kolleg for Young Researchers (3 days), Leibniz Association, Berlin, Germany.
Uncharted waters: business crash course (1 day), IGB, Berlin, Germany
QGIS advanced training course (3 days), IGB, Berlin, Germany

2015 Media- and Camera training (1 day), IGB, Berlin, Germany
Advanced statistics: general(ized) linear mixed models (5 days), IGB, Berlin, Germany

2014 Spatial multicriteria analysis for environmental decision-making (3 days), University of Trento, Italy
Meeting/workshop tools and moderation (1 day), IGB, Berlin, Germany

2013 Programming with R (2 days), IGB, Berlin, Germany
Adobe Illustrator (1 day), IGB, Berlin, Germany

2012 Grant writing, Griffith University (3 days), Brisbane, Australia

2011 Marxan software application (3 days), University of Queensland, Brisbane, Australia

2010 Eawag Summer School in Environmental Systems Analysis (5 days), 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)

Leioa, 15 January 2020