Curriculum Vitae Christine Weber (September 2026)

Contact details

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1. Employment Record

3. 2013 -	Group leader "River Restoration" and program leader "Swiss Rivers Program" at the Swiss Federal Institute of Aquatic Science and Technology (Eawag); tenured since 11.2017
2. 2016 -	Lecturer ETH Zurich, Master's degree program in Environmental Engineering
8. 2014 -	Lecturer ETH Zurich, Bachelor's degree program in Environmental Sciences
8. 2012 – 2. 2013	Scientific collaborator at the Cantonal Office for Civil Engineering in Fribourg (river restoration planning)
5. 2012 – 6. 2012	Online editor for tschau.ch, an information platform for young people (topic: biodiversity, nature conservation, climate change)
3. 2010 – 2. 2012	Postdoctoral fellow with Prof. Dr. Christer Nilsson at the Landscape Ecology Group, Umeå University, Sweden. Granted by Swiss National Science Foundation (first year) and Kempe Foundation, Sweden (second year)
11. 2006 – 12. 2009	Scientific collaborator at the Swiss Federal Institute of Aquatic Science and Technology (Eawag), Department 'Fish Ecology and Evolution'
	11. 2007 – 12. 2009 Co-coordinator of the Swiss Modular Stepwise Procedure (River Assessment). www.modul-stufen.konzept.ch
	11. 2006 – 10. 2007 Development of a concept for a long-term monitoring of fish assemblages in Swiss rivers. Pilot study on behalf of the Federal Office for the Environment, Berne
6. 2002 – 10. 2006	Ph.D. in Environmental Science at the Swiss Federal Institute of Aquatic Science and Technology (Eawag) and the Swiss Federal Institute of Technology Zurich (ETH)
6. 2002 – 12. 2005	Member of the Working Group 'Project Assessment' within the Rhone-Thur river rehabilitation project of Eawag, WSL, VAW, LCH. www.rivermanagement.ch
12. 2001 – 5. 2002	Scientific assistant at the Swiss Federal Veterinary Office, Department 'Vollzugsunterstützung' (implementation support)
10. 2001 – 11. 2001	Internship at the Swiss Federal Research Station for Agroecology and Agriculture, Research Group 'Evaluation Ökomassnahmen' (evaluation of ecological measures)
9. 2001	Internship at the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Research Unit 'Biodiversity'
8. 2000- 7. 2001	Internship at the Swiss Federal Veterinary Office, Department 'Bewilligungen und Kontrollen' (permits and supervision)

2. Education

6. 2002 – 10. 2006	Ph.D. in Environmental Science at the Swiss Federal Institute of Aquatic Science and Technology (Eawag) and the Swiss Federal Institute of Technology Zurich (ETH). Title: River rehabilitation and fish – The challenge of initiating ecological recovery. Supervision: Prof. Dr. Alexander J. B. Zehnder (ETH Zurich, Switzerland), Dr. Armin Peter (Eawag, Switzerland) and Prof. Dr. Jan Heggenes (Telemark College, Norway).
1999 - 2000	Master of Science thesis in Biology at the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL) and the University of Berne, Switzerland. Translated title: Long-term monitoring of physiological activity and transplantation of *Bactrospora dryina*: a contribution to the conservation of a rare lichen species. Supervision of PD Dr. Christoph Scheidegger (WSL, Switzerland).
1995 - 2000	Master of Science degree in Biology at the University of Berne, Switzerland.

3. Research Grants

1.2025 – 12.2028	Project “Residual flow and low flows in rivers – ecological effects and solutions”. Funding: Eawag and Federal Office for the Environment, Berne. Co-applicant. Main applicant. Dr. Martin Schmid, Eawag.
4.2025 – 3.2029	Project “Effect control of river restoration 2025-2029”. Funding: Federal Office for the Environment, Berne. Main applicant.
11.2021 – 4. 2023	Project “Elaborating outreach products within the Riverscape project (2017-2021)”. Eawag internal funding. Main applicant.
1.2022 – 12.2026	Project “Resilient rivers – stepping stones, refugia, connectivity”. Funding: Federal Office for the Environment, Berne. Project partners: VAW-ETHZ, PLCH-EPFL, WSL. Co-applicant. Main applicant: Dr. David Vetsch, VAW-ETHZ.
6. 2022 – 5. 2023	Project „Hydropeaking Mitigation – Synergies between Science and Practice 2.0”. Funding: Federal Office for the Environment, Berne. Main applicant.
8.2021 – 12.2022	Project “Data management for monitoring and evaluation of river restoration”. Funding: Federal Office for the Environment, Berne. Main applicant.
9.2020 – 12.2024	Project “River restoration – cross-project learning and development”. Funding: Federal Office for the Environment, Berne. Main applicant.
4. 2020 – 2. 2021	Project “Morphologische Begleitmassnahmen zur Sanierung von Schwall-Sunk”. Funding: Federal Office for the Environment, Berne. Co-applicant. Main applicant: Dr. Nico Bätz, Eawag.
3. 2020 – 1. 2022	Project “Eingrenzung der hydraulischen Verhältnisse zur Bewertung des Indikators «Invertebraten-Drift» für die Sanierung Schwall-Sunk”. Funding: Federal Office for the Environment, Berne. Co-applicant. Main applicant: Dr. Nico Bätz, Eawag.
10. 2020 – 9. 2024	Project “HistoRiCH: Historical river change – Planning for the future by exploring the mapped past”. Funding: Swiss National Science Foundation. Project Partners: ETHZ, ZHAW, Eawag. Co-applicant. Main applicant: Prof. Dr. Lorenz Hurni, ETHZ.
6. 2018 – 2. 2020	Project “River restoration – learning from the implementation for the future”. Funding: Federal Office for the Environment, Berne. Main applicant.
1. 2018 – 12. 2020	Small Flex - Demonstrator for flexible small hydropower plants. Funding: Swiss Federal Office of Energy, Berne. Project partners: ETHZ, EPFL, WSL, HES. Co-applicant. Main applicant: Dr. Cecile Münch-Alligné, HES.
8. 2017 – 7. 2021	Project „Hydropeaking Mitigation – Synergies between Science and Practice”. Funding: Federal Office for the Environment, Berne. Main applicant.
3. 2017 – 2. 2021	Swiss Rivers Program – Second Phase. Funding: Federal Office for the Environment, Berne. Main applicant.
1. 2017 – 12. 2021	Project “Riverscapes – Sediment dynamics and connectivity”. Funding: Federal Office for the Environment, Berne. Project partners: ETHZ-VAW, EPFL-LCH, WSL. Co-applicant. Main applicant: Prof. Dr. Christoph Scheidegger, WSL.
1. 2018 – 12. 2020	Project “Effects of hydropower exploitation on spatio-temporal variability of temperature in downstream rivers”. Eawag Ad-Hoc Funding (Matching Funds). Co-applicant. Main applicant: Dr. Martin Schmid, Eawag.
1. 2017 – 12. 2020	Swiss Competence Centre for Energy Research “Supply of Electricity (SCCER-SoE)” – Second Phase. Funding: Commission for Technology and Innovation. Project partners: ETHZ, EPFL, UniBE, UniL, UniGE, UniNE, Università della Svizzera Italiana, PSI, WSL, HSLU, HES, HSR. Co-applicant. Main applicant: Prof. Dr. Domenico Giardini, ETH Zurich.
6. 2015 – 7. 2017	Project “Re-establishing sediment dynamics and ecosystem functioning in rivers: Elaborating transfer products within the project “Sediment and Habitat Dynamics” (funded by FOEN, 2013-2017)”. Eawag Ad-Hoc Funding (Matching Funds). Main applicant.
4. 2015 – 6. 2017	Project “Evaluating the success of river rehabilitation – towards an efficient use of resources”. Funding: Federal Office for the Environment, Berne. Main applicant.
1. 2014 – 12. 2016	Swiss Competence Centre for Energy Research “Supply of Electricity (SCCER-SoE – First Phase. Funding: Commission for Technology and Innovation. Project partners: ETHZ, EPFL, UniBE, UniL, UniGE, UniNE, Università della Svizzera Italiana, PSI, WSL, HSLU, HES, HSR. Co-applicant. Main applicant: Prof. Dr. Domenico Giardini, ETH Zurich.

11. 2013 – 12. 2014	Project „Modelling fish habitat dynamics in hydropeaking rivers considering different morphology and habitat preference – current state, needs for improvement, and guidelines for application“. Funded by the Hydropower Research Program of the Swiss Federal Office of Energy, Berne. Project partners: SJE Ecological Engineering, Stuttgart. Main applicant.
7. 2013 – 6. 2017	Project “Sediment and habitat dynamics”. Funding: Federal Office for the Environment, Berne. Project partners: ETHZ-VAW, EPFL-LCH, WSL. Co-applicant. Main applicant: Prof. Dr. Christoph Scheidegger, WSL.
3. 2011 – 2. 2012	Postdoctoral fellowship offered from Kempe Foundations, Sweden.
3. 2010 – 2. 2011	Fellowship for prospective researchers offered from Swiss National Science Foundation.

4. Team

Members of the River Restoration Group

7.2025 – 6.2029	Nicole Bongni, Project scientist (in collaboration with M. Schmid)
2.2025 – 9.2026	Aude Lecrivain, MSc student/ scientific assistant
2.2023 – 1.2027	Chantal Hischier, PhD student
1. 2021 –	Christian Dinkel, Technician
6. 2018 – 5. 2027	Lucie Sprecher, Project scientist

Alumni

9. 2017 – 8. 2026	Nico Bätz, Project scientist
5.2025 – 5.2026	Sophie Büchi, Trainee/ scientific assistant
10. 2020 – 9. 2025	Marta Antonelli, Postdoc
9.2024-12.2024	Izabel Engström, Trainee
9.2024 – 1. 2025	Till Lerzer, Civil servant/ Scientific assistant
2.2024 – 7. 2024	Maïva Brunnberg, Trainee
4.2023 – 9.2023 2.2024 – 10.2024	Tara Behnsen, Trainee
8.2022 – 10.2022	Georg Odermatt, Civil servant
2.2022 – 9.2022	Livia Estermann, Master's student
1.2020 – 1. 2022	Nathalie Friese, Scientific assistant
9.2021 – 3. 2022	Jan Windmüller, Bachelor's student
2.2021 – 4.2021	Franziska Fechner, Trainee
4. 2020 – 3. 2021	Karen Isabeles Deniz, Trainee/ Master's student
4. 2018 – 11. 2020	Kate Mathers, Postdoc
4. 2019 – 1. 2020	Jonathan Molina, Scientific assistant
9. 2019 – 12. 2019	Nicole Schöni, Bachelor's student
6. 2019 – 9. 2019	Eric Tharmalingam, Trainee
5.2019 – 12.2019	Nathalie Friese, Trainee/ Master's student
3. 2019 – 2. 2020	Nikolina Janjic, Master's student
4. 2019 – 6. 2019 8. 2018 – 2. 2019	Esther Leitgeb, Master's student/ Scientific assistant
3. 2019 – 5.2019	Pierre Chanut, Scientific collaborator
12. 2014 – 4. 2019	Katharina Lange, Postdoc
8. 2018 – 1. 2019	Simone Jola, Civil servant
2. 2017 – 4. 2018	Lisa Wilmsmeier, Scientific assistant (in collaboration with M. Schmid)
2. 2018 – 4. 2018	Lioba Rath, Trainee
8. 2018 – 1. 2019 2. 2018 – 4. 2018	Samuel Sieder, Trainee/ Scientific Assistant
8. 2017 – 2. 2018 1. 2017 – 2. 2017	Jennifer Rieger, Trainee/ Bachelor's student
9. 2017 – 3.2018	Isabelle Ambord, Master's student
6. 2017 – 9. 2017	Severin Caluori, Trainee
10. 2015 – 2.2018	Ulrika Åberg, Project scientist
9. 2016 – 8.2017	Franziska Ackermann, Master's student
8. 2014 – 12. 2016	Clemens Trautwein, Postdoc (in collaboration with J. Brodersen)
6. 2016 – 7. 2016	Petra Nobs, Master's student
4. 2016 – 7. 2016	Raquel Arias Font, Master's student

2. 2015 – 7. 2015 9. 2015 – 2. 2016	Yvonne Kahlert, Trainee/ Scientific Assistant
8. 2014 – 9. 2015	Alvaro Baumann y Carmona, Master's student (co-supervision with C. Trautwein)
3. 2014 – 9. 2014	Emilie Hanus, Trainee/ Master's student
12. 2013 – 2. 2015	Julian Junker, Scientific collaborator

5. Mentoring/ Supervision

PhD studies:

2023-2027	Chantal Hischier (ETH Zurich, Switzerland; co-supervision with Prof. Dr. Christoph Vorburger and Dr. Nico Bätz). Habitat heterogeneity and river ecosystem resilience – The relevance of aquatic refugia from floods
2018 – 2022	Carmen Kowarik (ETH Zurich, Switzerland; co-supervision with Dr. Chris Robinson). Cross-ecosystem linkages - anthropogenic impacts on subsidy transfer from streams to riparian zones by emergent aquatic insects
2010 – 2015	Lovisa Lind (Umeå University, Sweden; co-supervision with Prof. Dr. Christer Nilsson). Breaking the ice – effects of ice formation and winter floods on vegetation along streams

Master's studies/ Bachelor's studies/ Diploma:

2.2024 – 9.2024	Jonas Steiner (MSc thesis, ETH Zurich; co-supervision with Dr. Nico Bätz, Dr. Luiz G.M. Silva). Combining the Riverine Organism Drift Imager with a portable flume: A novel way to study macroinvertebrate drift in situ under experimental hydropeaking conditions at high temporal resolution
2.2022 – 9.2022	Livia Estermann (BSc thesis. ETH Zurich). Longitudinal variation in cover availability – Comparison of two near-natural streams
9.2021 – 3. 2022	Jan Windmüller (BSc thesis. ETH Zurich; co-supervision with Dr. Nico Bätz). Invertebrate biomass and head width in drift samples under hydropeaking flow conditions – does size matter?
8.2020 – 3.2021	Karen Isabeles Deniz (MSc thesis. University Duisburg-Essen, Germany, and Radboud University, The Netherlands; co-supervision with Dr. Nico Bätz, Prof. Dr. Toine Smits, Prof. Dr. Christian Feld). The influence of hydraulic conditions on riverbed particle mobilisation
3. 2020 – 11. 2020	Lena Strini (BSc thesis. ETH Zurich, Switzerland; co-supervision with Dr. N. Bätz). Comparing organic matter drift and invertebrate drift in a riffle and pool habitat of a hydropeaking river
3.2020 – 10.2020	Robin Schroff (MSc thesis. TU Munich, Germany, and EPF Lausanne, Switzerland; Co-supervision with Christian Mörtl, Julian Brosda, Dr. Giovanni de Cesare, Prof. Karl Deindl). Eco-morphological evaluation of a residual flow reach restoration measure
9. 2019 – 12. 2019	Nicole Schöni (BSc thesis. ETH Zurich, Switzerland; co-supervision with Dr. N. Bätz). A proxy for monitoring invertebrate drift in hydropeaking rivers
8. 2018 – 2. 2019	Esther Leitgeb (MSc thesis. University Duisburg-Essen, Germany, and Radboud University, The Netherlands; co-supervision with Dr. Nico Bätz, Prof. Dr. André Nieman, Prof. Dr. Toine Smits). Effects of hydropeaking on physical habitats.
9. 20.17 – 2. 2019	Jonathan Molina (MSc thesis. University of Lausanne, Switzerland; co-supervision with Prof. Stuart Lane and Dr. Katharina Lange). L'impact des petites centrales hydroélectriques au fil de l'eau sur l'habitat fluvial.
12. 2017 – 2. 2018	Jennifer Rieger (BSc thesis. Zurich University of Applied Sciences ZHAW; co-supervision with Dr. Michael Döring). Ecological effects of small-scale run-of-river hydropower plants.
9. 2017 – 4. 2018	Anita Bianchi (MSc thesis. ETH Zurich, Switzerland; co-supervision with C. Rachelly). Analyse ausgewählter Objekte des Bundesinventars der Auengebiete von nationaler Bedeutung.
9. 2016 – 8. 2017	Franziska Ackermann (MSc thesis. University of Basel; co-supervision with Prof. Dr. B. Baur). Effects of bed load dynamics on growth of trout *Salmo trutta* in alpine streams
6. 2016 – 7. 2016	Petra Nobs (MSc thesis. Amsterdam University, The Netherlands; co-supervision with Prof. Dr. Piet Verdonschot). Evaluating the long-term effects of river restoration. State of research
4. 2016 – 7. 2016	Raquel Arias Font (MSc thesis. Utrecht University, The Netherlands; co-supervision with Prof. Dr. Jos Verhoeven). Assessing river restoration success from a functional perspective: the potential of functional indicators
8. 2014 – 9.2015	Alvaro Baumann y Carmona (MSc thesis. University of Zurich, Switzerland; co-supervision with Dr. C. Trautwein). The effects of altered sediment regimes on Brown Trout *Salmo trutta* and their diet
3. 2014 – 9. 2014	Emilie Hanus (MSc thesis. Université François-Rabelais, Tours, France). Rivers in protected areas in Switzerland – distribution, ecological status and management
2006 / 2007	Lorenzo Rovelli (Diploma thesis. ETH Zurich, Switzerland). Erfolgskontrolle bei Fliessgewässerrevitalisierungen - Räumliche Anwendung ausgewählter Indikatoren zur Überprüfung ihrer Aussagekraft und Praxistauglichkeit

CAS Studies (Certificate of Advanced Studies):

2. 2022 – 8. 2022	Christa Gufler (CAS study within the CAS course «Gewässerrenaturierung»; Zürcher Hochschule für Angewandte Wissenschaften). Wirkungskontrolle Revitalisierung der Oberen Lorze bei Baar - Indikator-Set 1 - Habitatvielfalt
4. 2020 – 9. 2020	Corinna von Kürthy (CAS study within the CAS course «Gewässerrenaturierung»; Zürcher Hochschule für Angewandte Wissenschaften). Wirkungskontrolle VERTIEFT – La Trame.

Other:

12. 2022 – 12. 2023	Izabel Engström (Matura thesis, Kantonsschule Alpenquai). Impacts of river restoration on Steinibach and Dorfbach, Horw (LU)

6. Presentations at international meetings

Weber, C. Revitalisieren, aufwerten, lernen! Die Rolle der angewandten Forschung an Fließgewässern. 4. Ausgabe des Wassersymposiums Oberrhein. Strasbourg, France. September 25, 2026 (oral presentation).

Hischier, C., Bätz, N., Rachelly, C., Demuth, P., Weitbrecht, V., Vetsch, D., **Weber, C.** River restoration: the role of habitat heterogeneity and flood refugia. XVI International Symposium on Ecohydraulics. Lausanne, Switzerland. August 17-20, 2026 (oral presentation).

Lecrivain, A., de Cesare, G, **Weber, C.**, Bätz, N. A toolbox for assessing patch-scale habitat dynamics for macroinvertebrates in flow-altered rivers. XVI International Symposium on Ecohydraulics. Lausanne, Switzerland. August 17-20, 2026 (oral presentation).

Friese, N, Mathers, K.L., **Weber, C.**, Tonolla, D., Bätz, N. The patch-scale matters: habitat-specific response of macroinvertebrate drift to flow pulses. XVI International Symposium on Ecohydraulics. Lausanne, Switzerland. August 17-20, 2026 (oral presentation).

Weber, C. Shifting a paradigm: from anecdotal to systematic learning in river restoration. XVI International Symposium on Ecohydraulics. Lausanne, Switzerland. August 17-20, 2026 (oral presentation/ plenary lecture).

Demuth, P., Weitbrecht, V., Hischier, C., **Weber, C.**, Boes, R., Vetsch, D. Landscape metrics as indicators for habitat complexity in restored river reaches. XVI International Symposium on Ecohydraulics. Lausanne, Switzerland. August 17-20, 2026 (oral presentation).

Friese, N., Mathers, K.L., **Weber, C.**, Tonolla, D. Bätz, N. Hydropeaking effects on macroinvertebrates: habitat-specific responses and implications for patch-scale management. Third international conference on sustainability in hydropower – SUSHP. Vienna, Austria. September 2-5, 2025 (oral presentation).

Bätz, N., Lecrivain, A., DeCesare, G., **Weber, C.** Nervous habitats: how hydropeaking frequency drives habitat dynamics and ecological risk. Third international conference on sustainability in hydropower – SUSHP. Vienna, Austria. September 2-5, 2025 (oral presentation).

Antonelli, M., Scherelis, V., **Weber, C.** Quantifying spatio-temporal changes in hydrological connectivity using historical and contemporary maps. Fifth international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. June 30 - July 4, 2025 (oral presentation)

Hischier, C.M., Bätz, N., **Weber, C.** Linking flow intensity and river morphology with refugia availability. Fifth international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. June 30 - July 4, 2025 (poster).

Bätz, N., Friese, N., **Weber, C.** Hydropeaking effects on habitat dynamics at patch-scale: implications for aquatic invertebrates. Fifth international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. June 30 - July 4, 2025 (poster).

Sprecher, L., Behnsen, T., Thomas, G., **Weber, C.** Restoring small streams: effects on aquatic organisms. Fifth international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. June 30 - July 4, 2025 (poster).

Weber, C., Sprecher, L., Behnsen, T., Hischier, C.M., Thomas, G. Restoring small streams: effects on habitat complexity. Fifth international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. June 30 - July 4, 2025 (poster).

Bätz, N., Judes, C., Vanzo, D., Capra, H., Lamouroux, N., **Weber, C.** Nervous habitats: the effects of hydropeaking on habitat dynamics. 40th IAHR World Congress. Vienna, Austria. August 21-25, 2023 (oral presentation).

Vetsch, D., Belser, A., DeCesare, G., Fink, S., **Weber, C.** Resilient rivers – interdisciplinary research on refugia, connectivity and stepping stones. 40th IAHR World Congress. Vienna, Austria. August 21-25, 2023 (oral presentation).

Weber, C. Aquatic refugia – safe havens during disturbance. Seminar. University of Lyon/ INRAE. October 4, 2022 (oral presentation).

Bätz, N., Judes, C., Vanzo, D., **Weber, C.** Nervous habitats: effects of hydropeaking on habitat persistency at the patch scale. Fourth international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. July 4-7, 2022 (oral presentation).

Sprecher, L., Thomas, G., **Weber, C.** Challenges and opportunities of using adaptive monitoring in river restoration in Switzerland. Fourth international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. July 4-7, 2022 (poster).

Mathers, K.L., Robinson, C.T., **Weber, C.**, Wood, P.J. The importance of substrate heterogeneity for ecological diversity. International Symposium for Bedload Management. Interlaken, Switzerland. November 8-10, 2021 (oral presentation).

Mathers, K.L., Robinson, C.T., **Weber, C.** Ecological and sedimentological effects of an experimental flood. Annual Meeting of the British Ecological Society. Belfast, Northern Ireland. December 10-13, 2019 (oral presentation).

Mathers, K.L., Robinson, C.T., **Weber, C.** Ecological and sedimentological effects of an experimental flood. SEFS Symposium for European Freshwater Sciences. Zagreb, Croatia. June 30 – July 5, 2019 (oral presentation).

Sprecher, L., Baumgartner, S., Thomas, G., Haertel-Borer, S., **Weber, C.** Learning by doing in river restoration: easy to say, but difficult to apply. Symposium for European Freshwater Sciences. Zagreb, Croatia. June 30 – July 5, 2019 (oral presentation).

Aksamit, C., Mathers, K., **Weber, C**., Schmid, M. Ebb and flow: macroinvertebrate resilience to varying hydropeak frequency. Symposium for European Freshwater Sciences. Zagreb, Croatia. June 30 – July 5, 2019 (oral presentation).

Vanzo, D., Doering, M., **Weber, C**., Schmid, M. The influence of hydropower production on river thermal heterogeneity: A modelling approach. General assembly of the European Geosciences Union. Vienna, Austria. April 7 – 12, 2019. (poster)

Weber, C. Comparing apples and oranges? Accounting for project diversity in monitoring and evaluation programs for river restoration. Third international conference on integrated sciences and sustainable development of rivers. Lyon, France. June 4-8, 2018 (oral presentation).

Bätz, N., **Weber, C.** Hydropeaking mitigation in Switzerland: collaborative learning between research and practice. Third international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. June 4-8, 2018 (poster).

Thomas, G., Åberg, U., **Weber, C.** Towards a collaborative learning in river restoration in Switzerland. Third international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. June 4-8, 2018 (poster).

Lange, K., Meier, P., Trautwein, C., Schmid, M., Robinson, C., **Weber, C.**, Brodersen, J. Small is beautiful? Trading-off small hydropower, ecology and evolution. Symposium for European Freshwater Sciences. Olomouc, Czech Republic. July 2-7, 2017 (oral presentation).

Trautwein, C., **Weber, C.** Ecological structure and function in alpine rivers along a gradient of sediment dynamics. DGL/SIL Tagung, Vienna, Austria. October 26-30, 2016 (oral presentation).

Weber, C. Towards a Sustainable Management of Swiss Rivers – The Role of Transdisciplinary Research. Workshop "Dialogue between the Water Framework Directive and the Flood Directive" organized by the Alpine Convention. Munich, Germany, September 17-18, 2015 (oral presentation).

Trautwein, C., **Weber, C.,** Lange, K., Baumann y Carmona, A., Brodersen, J. Fish like "The Rolling Stones". Symposium for European Freshwater Sciences. Geneva, Switzerland. July 5-10, 2015 (oral presentation)

Weber, C., Robinson, C. Schweizer Fliessgewässer im Spannungsfeld zwischen Schutz und Nutzung. Fachtagung Ökohydraulik – Leben im, am und mit dem Fluss. Obernach, Germany. June 27-28, 2013 (oral presentation).

Weber, C., Nilsson, C. Fish in icy streams: and yet they move. 2nd Biennial Symposium of the International Society for River Science ISRS, Berlin, Germany. August 8-12, 2011 (oral presentation).

Peter, A., Hostmann, M., Roulier, C., **Weber C.**, Woolsey, S. River restoration - the long way to success. 4th ECCR International Conference on River Restoration, Venice, Italy. June 16 – 21, 2008 (oral presentation).

Weber, C., Fette, M., Wehrli, B., Peter, A. Hydropower production and river rehabilitation: A case study on an alpine river. 2nd Young Scientist Conference on Interdisciplinary Mountain Research, Trafoi, Italy. September 29 - October 2, 2004 (poster).

Weber, C., Paulmier, E., Zanini, F. Evolution de la qualité écologique des paysages de la plaine du Rhône sur la base d'une analyse spatiale de cartes historiques. Premier Colloque Mémoires du Rhône, Bramois, Switzerland. December 10, 2004 (oral presentation).

Zanini F., **Weber C.**, Paulmier, E., Schlaepfer R. The temporal development of ecological quality in a riverine landscape: A tool to define priority areas for rehabilitation. Our Shared Landscape – Integrating ecological, socio-economic and aesthetic aspects in landscape planning and management, Ascona, Switzerland. May 3 – 7, 2005 (oral presentation).

7. Presentations at national meetings and seminars

Bätz, N., **Weber, C.** Nervöse Flüsse: Häufigkeit von Schwall und Sunk ist zentral. Eawag Info Day. Lucerne, Switzerland. September 8, 2026 (oral presentation).

Bongni, N., Schmid, M., **Weber, C.** Restwasser: Angemessen oder nur ein Rest? Eawag Info Day. Lucerne, Switzerland. September 8, 2026 (oral presentation).

Weber, C., Sprecher, L. Büchi, S., Behnsen, T. Wirkungsvoll revitalisieren – Oder Erkenntnisse aus 23 Revitalisierungen an kleinen Bächen. 6. Forum Gewässerrevitalisierung WaterAgenda21. Lenzburg, Switzerland. December 1-2, 2025.

Weber, C., Sprecher, L. Wirkungskontrolle VERTIEFT: Ergebnisse. Erfahrungsaustausch Makrozoobenthos. Berne, Switzerland. November 4, 2025.

Weber, C., Sprecher, L. Mise en œuvre et effets des revitalisations. Annual meeting CerclEau. Solothurn, June 26, 2025 (oral presentation).

Weber, C., Sprecher, L. Synthesebericht Wirkungskontrolle VERTIEFT 2020-24. 13. Informations- und Erfahrungsaustausch Gewässerrevitalisierung. WaterAgenda 21. Solothurn, May 13, 2025 (oral presentation).

Weber, C. Practice-oriented river research – supporting evidence-based river management. Seminar. SUPSI, Mendrisio. October 26, 2023 (oral presentation).

Weber, C. Collaborer pour protéger contre les crues. Eawag Info Day. Lausanne, Switzerland. September 14, 2023 (oral presentation).

Weber, C., Sprecher, L. Aktuelles aus der Wirkungskontrolle Revitalisierung. 11. Informations- und Erfahrungsaustausch Gewässerrevitalisierung. WaterAgenda 21. Berne, Switzerland. May 30, 2023 (oral presentation).

Weber, C. Fazit. Fachtagung "11 Jahre Renaturierung der Gewässer". WaterAgenda 21. Solothurn, Switzerland. August 24, 2022 (oral presentation).

Weber, C., Sprecher, L. Aktuelles aus der Wirkungskontrolle Revitalisierung. 10. Informations- und Erfahrungsaustausch Gewässerrevitalisierung. WaterAgenda 21. Zurich, Switzerland. June 9, 2022 (oral presentation).

Weber, C.: Revitalisieren, aufwerten, lernen! Wirkungskontrollen mit Wirkung in der Revitalisierung unserer Gewässer. AquaViva Wasserzirkel, Hagneck, Switzerland. March 31, 2022 (oral presentation).

Weber, C., Sprecher, L. Wirkungskontrollen mit Wirkung: Anforderungen an ein schweizweit einheitliches Vorgehen. UNA-Tour. Zoom. April 29, 2021 (oral presentation).

Weber, C., Rachelly, C. Mathers, K, Vetsch, D., Weitbrecht, V. Refugien – (Über)Lebensräume in Fliessgewässern. Sanierung Geschiebehaushalt – 4. Informations- und Erfahrungsaustausch zur Planung und Umsetzung von Massnahmen. WaterAgenda 21. Zoom. November 12, 2020 (oral presentation).

Weber, C., Sprecher, L., Thomas, G. Baumgartner, S., Haertel-Borer, S. Die Wirkungskontrolle von Fliessgewässerrevitalisierungen ab 2020. Informationsveranstaltung für kantonale Fachstellen. WaterAgenda 21. Sargans/ Olten/ Lausanne/ Lucerne, January 14/ 23/ 27/ 30, 2020 (oral presentation).

Sprecher, L., **Weber, C**., Thomas, G. Baumgartner, S., Haertel-Borer, S. Wirkungskontrolle in der Praxis (Vorstellung Praxisleitfaden). Forum Gewässerrevitalisierung WA21. Muttenz, Switzerland, December 5, 2019 (oral presentation).

Lange, K., **Weber, C.**, Schmid, M. Ecological effects of small hydropowre plants. SCCER-SoE Annual Conference, Lausanne, Switzerland, September 3-4, 2019 (presentation).

Aksamit, C., Vanzo, D., Carolli, M., Friese, N., Mathers, K., **Weber, C**., Schmid, M. Ecological impacts of small-flexible hydropower: macroinvertebrate resilience to varying frequency hydropeaking. SCCER-SoE Annual Conference, Lausanne, Switzerland, September 3-4, 2019 (poster).

Weber, C. Sanieren, revitalisieren – gemeinsam durch Planung und Umsetzung. Eawag Info Day. Lucerne, Switzerland. September 3, 2019 (oral presentation).

Weber, C. Forellen mögen die „Rolling Stones"! Die ökologische Bedeutung von Kies und Co. Naturmuseum St. Gallen, Switzerland. August 14, 2019 (oral presentation).

Thomas, G., Sprecher, L., **Weber, C.**, Haertel-Borer, S., Baumgartner, S. Wirkungskontrolle bei Fliessgewässerrevitalisierungen: Lernen für die Zukunft. Suivi des effets pour les revitalisations des cours d'eau: apprendre pour l'avenir. Revitalisierung – 6. Informations- und Erfahrungsaustausch. Plattform Revitalisierung/ WaterAgenda 21. Berne, Switzerland. November 22, 2018 (oral presentation).

Bätz, N., **Weber, C**. Gemeinsam lernen für die Sanierung von Schwall-Sunk. Sanierung Schwall-Sunk – 4. Informations- und Erfahrungsaustausch. Plattform Sanierung Wasserkraft/ WaterAgenda 21. Berne, Switzerland. November 6, 2018 (oral presentation).

Vanzo, D., Schmid, M., **Weber, C.**, Döring, M. Hydropower and water temperature: modelling the effects of management scenarios on river thermal heterogeneity. SCCER-SoE Annual Conference, Horw, Switzerland, September 14-15, 2018 (poster).

Vanzo, D., Schmid, M., **Weber, C.**, Döring, M. Hydropower and water temperature: modelling the effects of management scenarios on river thermal heterogeneity. Eawag Symposium. Dübendorf, Switzerland. September 14, 2018 (poster).

Weber, C., Ambord, I., Wilmsmeier, L., Lange, K. Small-scale hydropower plants in alpine streams – studying ecological effects across different scales. SCCER-SoE Annual Conference, Horw, Switzerland, September 14-15, 2018 (oral presentation).

Weber, C. Wirkungskontrolle Revitalisierung – Wasserbau und Ökologie/ Suivi des effets des revitalisations - Aménagement et écologie des cours d'eau. Fischereiaufseherkurs 2018. Abtwil, Switzerland. August 22, 2018 (oral presentation).

Weber, C. Die Schweizer Fliessgewässer revitalisieren – Grundlagen für den gemeinsamen Lernprozess. Internal seminar Vogelwarte Sempach. Sempach, Switzerland. May 9, 2018 (oral presentation).

Weber, C. Wirkungskontrolle Revitalisierung – Oder: Die Katze im Sack? Revitalisierung – 5. Informations- und Erfahrungsaustausch. Plattform Revitalisierung/ WaterAgenda 21. Olten, Switzerland. April 24, 2018 (oral presentation).

Weber, C., Schleiss, A. Synthese aus dem Forschungsprogramm Wasserbau und Ökologie 2013–2017. Fokus: Geschiebesammler und ökologische Prozesse. KOHS-Tagung. Olten, Switzerland. March 20, 2018 (oral presentation).

Weber, C., Åberg, U. Revitalisieren, Sanieren – Lernen! Wirkungskontrollen mit Wirkung im Flussmanagement. Blaues Seminar VAW-ETHZ. Zurich, Switzerland. December 5, 2017 (oral presentation).

Weber, C., Åberg, U. Konzept Wirkungskontrolle Schweiz – Grundlagen für den Lernprozess. Symposium "Revitalisierung von Fliessgewässer – Lösungsansätze für vielfältige Herausforderungen". AG.Renat/ WaterAgenda 21. Lucerne, Switzerland. November 13, 2017.

Lange, K., Meier, P., Trautwein, C., Robinson, C., Schmid, M., **Weber, C.**, Brodersen, J. Trading off energy production from small hydropower with biodiversity conservation. SCCER-SoE Annual Conference, Birmensdorf, Switzerland, September 14-15, 2017 (oral presentation).

Weber, C., Robinson, C. Professionalizing knowledge transfer – Lessons learned within a four-year transdisciplinary research project. Eawag Symposium. Dübendorf, Switzerland. September 15, 2016 (oral presentation).

Weber, C. Aktuelle Informationen der Eawag – Programm Fliessgewässer Schweiz. Forum AG.Renat/ WaterAgenda 21. Berne, Switzerland, May 11, 2017.

Weber, C. Forellen mögen die „Rolling Stones"! Die ökologische Bedeutung von Kies und Co. Symposium „Fischen Jagen Schiessen". Chur, Switzerland, February 11, 2017 (oral presentation).

Weber, C., Trautwein, C., Martin, E., Bauman y Carmona, A., Döring, M., Robinson, C., Brodersen, J., Kahlert, Y., Lange, K. It's one thousand four hundred and forty seven! Or: Summarizing Eawag's research. Closure plenary meeting of the Project "Sediment and Habitat Dynamics". Berne, Switzerland, December 2, 2016 (oral presentation).

Weber, C., Robinson, C. Promoting "The Rolling Stones" - Knowledge transfer within the transdisciplinary research project "Sediment and habitat dynamics". Eawag Symposium. Dübendorf, Switzerland. September 15, 2016 (poster).

Lange, K., Di Michelangeli, S., Kahlert, Y., Hellmann, J., Trautwein, C., **Weber, C.**, Brodersen, J. Ecological impacts of small-scale run-of-river hydropower plants. Annual Conference of the Swiss Competence Centre for Energy Research – Supply of Electricity. Sion, Switzerland, September 12-13, 2016 (poster).

Weber, C., Åberg, U. Wirkungskontrolle bei Flussrevitalisierungen - Ein Projekt von Eawag und BAFU/ Evaluer les effets des mesures de revitalisation - un projet de l'Eawag et de l'OFEV. Fischereiaufseherkurs 2016. Lausanne, Switzerland. August 19, 2016 (oral presentations).

Weber, C. Die «Rolling Stones» und andere «Altbekannte» - Aktuelle Informationen der Eawag/ Les Rolling Stones et d'autres «vieilles connaissances» - Informations actuelles de l'Eawag . Fischereiaufseherkurs 2016. Lausanne, Switzerland. August 19, 2016 (oral presentations).

Dunand, I., **Weber, C.** Revitalisation et assainissement de la force hydraulique. Informations actuelles de l'OFEV et état d'avancement du suivi des résultats national/ Revitalisierung und Sanierung Wasserkraft. Aktuelle Informationen des BAFU und Stand der nationalen Wirkungskontrolle. Annual meeting CerclEau. Lucerne, June 16, 2016 (oral presentation).

Weber, C. Programm Wasserbau und Ökologie. Sanierung Geschiebehaushalt – 2. Informations- und Erfahrungsaustausch zur Planung und Umsetzung von Massnahmen. WaterAgenda 21. Berne, Switzerland. May 4, 2016 (oral presentation).

Weber, C. Åberg, U. Die Umsetzung des GSchG unterstützen. Information event of the Swiss Water Association (Verband Schweizer Abwasser- und Gewässerschutzfachleute). Berne, Switzerland, January 15, 2016 (oral presentation).

Lange, K., Di Michelangeli, S., Kahlert, Y., Hellmann, J., Trautwein, C., **Weber, C.**, Brodersen, J. Local-scale impacts of small hydropower plants on ecosystem functioning. Annual Conference of the Swiss Competence Centre for Energy Research – Supply of Electricity. Neuchâtel, Switzerland, September 10-11, 2015 (poster).

Lange, K., Meier, P., Trautwein, C., Kobler, U., Schmid, M., Robinson, C., **Weber, C.**, Brodersen, J. Trading-off among multiple objectives: energy production from small hydropower plants, biodiversity and ecosystem services. Annual Conference of the Swiss Competence Centre for Energy Research – Supply of Electricity. Neuchâtel, Switzerland, September 10-11, 2015 (poster).

Weber, C. Renaturation des cours d'eau: entre protection et utilisation. Eawag Info Day. Lausanne, Switzerland. September 3, 2015 (oral presentation).

Weber, C. Das „Programm Fliessgewässer Schweiz" von Eawag und BAFU. Revitalisierung – 1. Informations- und Erfahrungsaustausch. AG.Renat/ WaterAgenda 21. Berne, Switzerland. May 27, 2015 (oral presentation).

Weber C. Wasserkraftnutzung im Wasserschloss Schweiz: Herausforderungen aus ökologischer Sicht. Forum für Wissen. WSL Birmensdorf, Switzerland. November 25, 2014 (oral presentation).

Weber, C. Les poissons adorent les "Rolling Stones" – Régime de charriage et fonctions écologiques. Entretien des cours d'eau pour les praticiens – cours hiver. PUSCH, Villeneuve, Switzerland. November 21, 2014 (oral presentation).
Weber, C. Synthese erster Tag. Symposium „Fischwanderung in genutzten Gewässern – Herausforderungen und Lösungen". Biel, Switzerland. October 30 – November 1, 2014 (oral presentation).

Weber, C., Hellmann, J. Nach Projekten gefischt – Aktuelle Informationen der Eawag/ Pêche de projets – Informations de l'Eawag. Fischereiaufseherkurs 2014. Pontresina, Switzerland. August 22, 2014 (oral presentations).

Weber, C. Programm Fliessgewässer Schweiz – eine gemeinsame Forschungsinitiative von BAFU und Eawag. Meeting Steering Commitee WA21. Kastanienbaum, Switzerland. April 24, 2014 (oral presentation).

Weber, C. The Swiss Rivers Program - A joint research initiative by BAFU and Eawag to support practical river management. Seminar SURF department, Eawag, Kastanienbaum and video transmission to Eawag Dübendorf, Switzerland. April 7, 2014 (oral presentation).

Weber, C. The Swiss Rivers Program - A joint research initiative by BAFU and Eawag to support practical river management. Graduate discussion FishEc department, Eawag, Kastanienbaum, Switzerland. March 26, 2014 (oral presentation).

Weber, C. The Swiss Rivers Program - A joint research initiative by BAFU and Eawag to support practical river management. Lunch Seminar, Eawag, Dübendorf, Switzerland. February 20, 2014 (oral presentation).

Weber, C. Programm Fliessgewässer Schweiz. Meeting of the Section "Morphology and Residual Flows of Surface Waters" of the Swiss Federal Office for the Environment. Berne, Switzerland. November 21, 2013 (oral presentation).

Weber, C., Wehrli B. Programm Fliessgewässer Schweiz – ein Forschungsprogramm von Eawag und BAFU für die Praxis. Meeting of the Swiss Hydrological Commission CHy. Berne, Switzerland. March 26, 2013 (oral presentation).

Weber, C. Fish in icy streams – and yet they move. Annual meeting of the Landscape Ecology Group. Vindeln, Sweden. September 30, 2011 (oral presentation).

Weber, C., Lind, L., Nilsson, C. Climate change and ice formation in streams: Effects on fish communities and vegetation and tools for proactive restoration. Annual meeting of the Landscape Ecology Group. Örnsköldsvik, Sweden. September 29, 2010 (oral presentation).

Weber, C. Ice effects on riverine fish – proposal for a two-year postdoc project. Annual meeting of the Landscape Ecology Group. Björkudden, Sweden. October 1, 2009 (oral presentation).

Langhans, S., **Weber, C.** Das Modul-Stufen-Konzept. Annual meeting Cercl'eau. Solothurn, Switzerland. June 18, 2009 (oral presentation).

Weber C. Step by step to an integrated river assessment: The Swiss Modular Stepwise Procedure. Student information day (Interfakultäre Koordinationsstelle für Allgemeine Ökologie IKAÖ; University of Berne). Kastanienbaum, Switzerland. December 12, 2008 (oral presentation).

Bundi, U., Langhans, S., **Weber, C.** Step by step to an integrated river assessment: The Swiss Modular Stepwise Procedure. Seminar Eawag Dübendorf. Dübendorf, Switzerland. December 4, 2008 (oral presentation).

Bundi, U., Langhans, S., **Weber, C.** Step by step to an integrated river assessment: The Swiss Modular Stepwise Procedure. Seminar Eawag Kastanienbaum. Kastanienbaum, Switzerland. November 24, 2008 (oral presentation).

Weber, C., Peter A. Nationales Langzeit-Monitoring der Fischbestände in der Bachforellenregion der Schweizer Fliessgewässer. Federal Office for the Environment. Berne, Switzerland. November 12, 2008 (oral presentation).

Weber, C., Langhans, S. Modul-Stufen-Konzept: aktueller Stand und Zukunft. Annual meeting Cercl'eau. Thun, Switzerland. May 29, 2008 (oral presentation).

Weber, C., Peter A. A concept for a long-term monitoring of riverine fish stocks in Switzerland – with special emphasis on the trout region. Seminar of the Department Fish Ecology and Evolution. Kastanienbaum, Switzerland. March 8, 2008 (oral presentation).

Schager, E., Peter, A. **Weber, C.** Fische Stufe F und S: Prinzip, Anwendungen, aktueller Stand, Perspektiven. Meeting Swiss Modular Stepwise Procedure. Berne, Switzerland. January 25, 2007 (oral presentation).

Weber, C., Woolsey, S. Peter, A. Ende gut, alles gut? Ein Werkzeug für die Erfolgskontrolle. Eawag Info Day. Zurich, Switzerland. March 8, 2006 (oral presentation).

Weber, C., Peter A. Fish-ecological analysis in a degraded river system - Deficits, potentials and limitations. Seminar Eawag Kastanienbaum. Kastanienbaum, Switzerland. January 2005 (oral presentation).

Weber, C., Peter, A. Analyse fischökologischer Defizite in der Rhone. Annual meeting of the Swiss Society for Hydrology and Limnology SGHL. La Chaux-de-Fonds, Switzerland. September 3, 2004 (oral presentation).

8. Reviewing

- Canadian Journal of Fisheries and Aquatic Sciences
- Cambridge University Press
- Ecology of Freshwater Fish
- Ecology and Society
- Ecosystems
- Ecosphere
- Fisheries Management and Ecology
- Hydrobiologia
- Hydrology and Earth System Sciences
- Journal of Environmental Planning and Management
- Methods in Ecology and Evolution
- Nature Reviews Earth & Environment
- New Zealand Journal of Marine and Freshwater Research
- North American Journal of Fisheries Management
- River Research and Applications
- Science of the Total Environment

9. Short-term academic commitments

8. 2026	Invited member of the scientific commission. XVI International Symposium on Ecohydraulics. Lausanne, Switzerland. August 17-20, 2026.
7. 2025	Invited member of the scientific commission. Fifth international conference on integrated sciences and sustainable development of rivers – I.S. Rivers. Lyon, France. June 30 - July 4, 2025.
5. 2025	Jury member in the PhD defense of Emanuel Jaulin, Université Claude Bernard, Lyon, France. May 6, 2025.
10.2022	Jury member in the PhD defense of Juliette Becquet, Université Claude Bernard, Lyon, France. October 5, 2022.
11. 2018	Science representative at the round table discussion at the "1ère journée nationale du réseau français des sites de démonstration pour la restauration des cours d'eau ». Paris, France. November 13, 2018.
6. 2018	Invited member of the scientific commission. Third international conference on integrated sciences and sustainable development of rivers. Lyon, France. June 4-8, 2018.

10. Long-term academic commitments

7. 2015 – 8. 2018	Member of the advisory group for the research project HyApp "Hydro-ecology and Floodplain Sustainability in Application" founded by Swiss National Science Foundation in the framework of the NRP 70.
1. 2015 – 1. 2019	Member of the steering board of the SGHL (Schweizerische Gesellschaft für Hydrologie und Limnologie/ Swiss Hydrological and Limnological Society)
2. 2014 - 2020	Founder and chair of the Eawag cross-departmental working group "Swiss Rivers" with members from 12 departments and associated platforms (FIBER, WA21, Plattform Wasserqualität).

11. Workshops and conferences (co-)organised

Workshop "Wirkungskontrollen mit Wirkung – Lernen aus den Erkenntnissen der Wirkungskontrolle VERTIEFT 2020-24". 6. Forum Gewässerrevitalisierung WaterAgenda21. Lenzburg, Switzerland. December 1-2, 2025.

Workshops "Informationsveranstaltung Wirkungskontrolle VERTIEFT 2025-28". BAFU/ WaterAgenda 21. Olten/ Zoom. August 28/ September 7, 2023.

Online workshops for peer-to-peer learning in river restoration ("Online-Ateliers WiKo Revitalisierung"/ "Ateliers en ligne WiKo Revit"). In collaboration with WaterAgenda 21.

September 15, 2021	February 2, 2022	November 2, 2022	June 15, 2023
September 29, 2021	February 10, 2022	November 9, 2022	May 22, 2024
November 11, 2021	September 15, 2022	November 16, 2022	
November 17, 2021	September 7, 2022	June 13, 2023	

Workshops "Informationsveranstaltung Wirkungskontrolle VERTIEFT für kantonale Fachstellen". WaterAgenda 21. Zoom. February 11/ 18/ 25, 2021.

Workshops "Informationsveranstaltung Wirkungskontrolle Revitalisierung für kantonale Fachstellen". WaterAgenda 21. Sargans/ Olten/ Lausanne/ Lucerne, January 14/ 23/ 27/ 30, 2020.

Workshop "Anforderungen an Praxisleitfaden für Wirkungskontrolle". Revitalisierung – 6. Informations- und Erfahrungsaustausch. Plattform Revitalisierung/ WaterAgenda 21. Berne, Switzerland. November 22, 2018.

Workshop "Wirkungskontrolle Revitalisierung – Finanzierung und Organisation". Federal Office for the Environment. Olten, Switzerland. September 5, 2018.

Symposium "Citizen Science – Gemeinsam forschen und lernen in Hydrologie und Limnologie". Swiss Hydrological and Limnological Society. Zurich, Switzerland. June 11, 2018.

"Science Workshop on Hydropeaking Mitigation". Federal Office for the Environment. Berne, Switzerland, April 18, 2018

Symposium "Revitalisierung von Fliessgewässer – Lösungsansätze für vielfältige Herausforderungen". AG.Renat/ WaterAgenda 21. Lucerne, Switzerland. November 13, 2017.

Symposium "Fernerkundung – Anwendungen in Hydrologie und Limnologie". Swiss Hydrological and Limnological Society. Biel, Switzerland. September 11, 2017.

Workshop "Evaluating the outcome of river rehabilitation projects: towards an effective use of resources". Project workshop. Kastanienbaum, Switzerland. June 6-9, 2017.

Workshop "Umsetzung der Revitalisierungsplanungen – 4. Informations- und Erfahrungsaustausch". AG.Renat/ WaterAgenda 21. Berne, Switzerland. March 23, 2017.

Workshop "Umsetzung der Revitalisierungsplanungen – 3. Informations- und Erfahrungsaustausch". AG.Renat/ WaterAgenda 21. Fribourg, Switzerland. October 27, 2016.

Workshop "Evaluating the outcome of river rehabilitation projects: towards an effective use of resources". Project workshops. Kastanienbaum, Switzerland. October 4-7, 2016/ May 30 – June 2, 2017.

Workshop "National strategies for monitoring and success evaluation in river rehabilitation". Two half day workshops at the international conference "Towards the Best Practice of River Restoration and Maintenance", Krakow, Poland. September 20 – 23, 2016.

Workshop "Umsetzung der Revitalisierungsplanungen – 2. Informations- und Erfahrungsaustausch". AG.Renat/ WaterAgenda 21. Berne, Switzerland. March 3, 2016.

Workshop "Umsetzung der Revitalisierungsplanungen – 1. Informations- und Erfahrungsaustausch". AG.Renat/ WaterAgenda 21. Berne, Switzerland. May 27, 2015.

Workshop "Forecasting the outcome of hydropeaking mitigation measures: The role of fish input data and river morphology in habitat suitability modelling". Project workshop. Kastanienbaum, Switzerland. November 13-14, 2014.

Symposium „Fischwanderung in genutzten Gewässern – Herausforderungen und Lösungen". WaterAgenda 21. Biel, Switzerland. October 30 – November 1, 2014.

Cross-departmental working group "Swiss Rivers". Half-day workshops for Eawag-internal coordination and exchange. Dübendorf, Switzerland. March 13, 2014/ June 3, 2014/ August 19, 2014/ February 10, 2015/ August 11, 2015/ March 3, 2016/ March 28, 2017/ October 24, 2017/ June 19, 2018/ January 24, 2019..

Konzept Plattform Renaturierung. Half-day workshop of the WaterAgenda 21. Berne, Switzerland. November, 18, 2013

Makrophyten-Bewertung in Fliessgewässern - Diskussion Minimaldatensatz und weiteres Vorgehen. One day workshop of the working group ‚Macrophytes" (Swiss Modular Stepwise procedure). Berne, Switzerland. May 28, 2008.

Erfolgskontrolle bei Flussrevitalisierungen. One day workshop of the working group „Success evaluation“ (Rhone-Thur Project). Zurich, Switzerland. May 30, 2005.

Introduction and Workshop on Analysis of Variance (ANOVA). One day workshop hold by Prof. W. Stahel, ETH Zurich. Kastanienbaum, Switzerland. November 24, 2004.

Lecture and Workshop on Linear Regression. One day workshop hold by Prof. W. Stahel, ETH Zurich. Kastanienbaum, Switzerland. December 5, 2003.

12. Collaboration with practitioners

2. 2022 –	Project “Evaluating the outcome of river restoration”: Co-chair of the advisory group (Federal Office for the Environment, cantonal services for fishery, nature conservation and river engineering, private consultancies).
3. 2019 – 11. 2019	Project “River restoration – learning from the implementation for the future”: Co-chair of the advisory group (Federal Office for the Environment, cantonal services for fishery, nature conservation and river engineering, private consultancies).
1. 2018 – 12. 2021	Project “Riverscape – Sediment dynamics and connectivity”: Co-chair of the advisory group (Federal Office for the Environment, cantonal services for fishery, nature conservation and river engineering, NGOs).
7. 2018 -	Plattform Sanierung Wasserkraft (WaterAgenda 21): Member of the steering committee (Federal Office for the Environment, cantonal authorities).
9. 2018 -	Plattform Renaturierung (WaterAgenda 21): Member of the steering committee (Federal Office for the Environment, cantonal authorities, NGOs, hydropower operators).
6. 2016 – 2. 2018	Project “Evaluating the outcome of river rehabilitation projects: towards an efficient use of resources”: Co-chair of the national advisory group (Federal Office for the Environment, cantonal services for water protection and river engineering, private offices).
5. 2015 – 12. 2018	Eawag representative in the advisory group for the elaboration of a national guideline on planning sediment rehabilitation measures (“Vollzugshilfe Massnahmenplanung Geschiebesanierung”). Federal Office for the Environment.
3. 2014 – 12.2017	AG.Renat/ WaterAgenda 21: Member of the steering committee and the working group “Renaturierung der Gewässer” (Federal Office for the Environment, cantonal services, NGOs, associations).
5. 2014 – 4. 2020	Working group “Big Picture Renaturierung”. Federal Office for the Environment.
8. 2013 – 8. 2014	WaterAgenda 21: Member of the working group “Dialog Wasserkraft” (Federal Office for the Environment, Federal office of Energy, NGOs, hydropower operators).
7. 2013 – 12.2017	Project “Sediment and habitat dynamics”: Co-chair of the advisory group (Federal Office for the Environment, cantonal services for fishery, nature conservation and river engineering, NGOs).
3. 2010 – 2. 2012	Postdoc project Umeå University: Vindeln Fiskerådet, county administration of the county of Västerbotten
11. 2007 – 12. 2009	Swiss Modular Stepwise Procedure: Member in several advisory groups (Federal Office for the Environment, cantonal services for water protection, private offices)
11. 2006 – 10. 2007	Long-term monitoring of fish communities: Co-chair of the advisory group (Federal Office for the Environment, cantonal fishery services)
2004 – 2006	Birs river rehabilitation project: Cantonal fishery service BL
2002 – 2006	Rhone-Thur Project: Cantonal administration VS; Projet R3

13. Public outreach and selected media coverage

Guided tours Eawag Kastanienbaum (topics: river restoration, hydropower mitigation).

June 17, 2015	June 18-19, 2016	July 4, 2019	June 28, 2024
August 21, 2015	March 29, 2017	November 9, 2019¨	August 28, 2024
June 9, 2016	May 29, 2018	May 3, 2022	August 27, 2025
June 13, 2016	November 8, 2018	January 23, 2023	

Invited presentation on “Alles im Fluss? Der Zustand unserer Bäche und Flüsse –gestern, heute, morgen». Verein Natur und Umwelt, Rümlang. January 23, 2026.

Open Doors Day Eawag Dübendorf. Info stand on river restoration, hydropower mitigation. September 13/14, 2024.

Invited presentation on “Netzwerken einmal anders: Die Bedeutung der Gewässer für Tiere, Pflanzen – und Menschen». Silberner Bruch, Zurich. March 21, 2024.

Interview on river restoration in the newspaper “Lebendige Limmat”for the Limmat restoration project. June 2024.

Podium discussion on river ecosystems at ArtFlow exhibition. Mai 2, 2024.

Interview with Radio SRF 4 on river restoration. November 30, 2023.

Public talk in the series “Forschung am See” of Eawag Kastanienbaum. Title: Achtung Hochwasser! Was heisst dies für Tiere und Pflanzen in Fliessgewässern? October 17, 2023.

Eawag representation at the outreach event at the World Economic Forum in Davos (Innovations from the ETH Domain: Insights into research in the service of Switzerland) – “River restoration – a journey in time”. May 23, 2022

Three page interview together with David Vetsch from VAW-ETHZ in the magazine “Umwelt”. «Man muss die Denkweise der anderen begreifen». September 2021.

Two-page interview in the magazine „Der Beobachter“ (860‘000 readers). «Die Leute fragen mich: Was heisst das für unser Trinkwasser?». May 2017.

Science representative at the 1st meeting of the «VSA Young Professionals». Solothurn, Switzerland. October 26, 2018.

200 anniversary scnat – Swiss Academy of Sciences. Public outreach event at the fish pass at the Mühliplatz, Lucerne, Switzerland. In collaboration with Dr. A. Peter, Eawag and Dr. B. Allgöwer, Natural History Museum Lucerne. August 6, 2015.

World Fish Migration Day 2014. Public outreach event at the fish pass at the Mühliplatz, Lucerne, Switzerland. In collaboration with Dr. A. Peter, Eawag and Dr. B. Allgöwer, Natural History Museum Lucerne. May 24, 2014.

Forskarträff Umeå (in Swedish): Field day for 45 local third-graders (topics: river ice, PIT-tagging, field work).

Guided tours Eawag Kastanienbaum 2002-2009 (topics: overview Eawag, river rehabilitation, river assessment)

Mentoring program for gymnasium students (2001; 2006)

Interview Tele Basel (field work at the Birs river rehabilitation project)

14. Teaching and continuing education

2026	Invited lecture on “Fliessgewässerrevitalisierung und Erfolgskontrolle (Wirkungskontrolle)”. Module “Gewässerschutz” at the Bern University of Applied Sciences, Wädenswil, Switzerland.
2026	PEAK-Course “Wirkungskontrolle Revitalisierung – Makrophyten (V64/26)”. Dübendorf, September 24, 2026.
2025	Invited lecture on “Wirkungskontrolle bei Revitalisierungsprojekten”. CAS Course “Gewässerrenaturierung”. ZHAW Wädenswil. November 7, 2025.
2025	PEAK-Course “Wirkungskontrolle Revitalisierung – Avifauna (V61/25)”. Vogelwarte Sempach, October 21, 2025.
2024	Invited lecture on “Contrôle des effets”. CAS Course “Revitalisation des cours d’eau”. HEPIA Geneva. April 13, 2024.
2024	PEAK-Course “Wirkungskontrolle Revitalisierung – Makrozoobenthos (V54/23)”. Dübendorf, February 14, 2024.
2023	Invited lecture on “Wirkungskontrolle bei Revitalisierungsprojekten”. CAS Course “Gewässerrenaturierung”. ZHAW Wädenswil. November 11, 2023.
2023	PEAK-Course “Wirkungskontrolle Revitalisierung–Ufervegetation (V54/23)”. Berne, January 19, 2023.
2022	PEAK-Course “Wirkungskontrolle Revitalisierung–Ufervegetation (V54/22)”. Berne, May 10, 2022.
2022	Invited lecture on “Contrôle des effets”. CAS Course “Revitalisation des cours d’eau”. heig-vd Yverdon. April 9, 2022.
2021	Invited lecture on “Wirkungskontrolle bei Revitalisierungsprojekten”. CAS Course “Gewässerrenaturierung”. ZHAW Wädenswil. October 29, 2021.
2021	PEAK-Course «Wirkungskontrolle Revitalisierung: Konzept und Habitatvielfalt» (V29/21). Dübendorf, July 6-7, 2021.
2021	PEAK-Course „Contrôle des effets des projets de revitalisation: concept et diversité des habitats“ (V29/21-fr). Lausanne, June 8, 2021.
2020	PEAK-Course „Contrôle des effets des projets de revitalisation: concept et diversité des habitats“ (B29/20-FR1). Zoom, August 17-18, 2020.
2020	PEAK-Course „Wirkungskontrolle Revitalisierung: Konzept und Habitatvielfalt“ (B29/20-T1). Zoom, August 25-26, 2020.
2019	Invited lecture on “Wirkungskontrolle bei Revitalisierungsprojekten”. CAS Course “Gewässerrenaturierung”. ZHAW Wädenswil. December 6, 2019.
2019	Contribution to workshop on «Erfolgskontrolle» at the VSA Course “Lebendige Gewässer”. Kandersteg, October 25, 2019.
2019	Invited lecture on “Suivi des effets”. CAS Course “Revitalisation des cours d’eau”. heig-vd Yverdon. April 6, 2019.
2019	PEAK-KOHS Course „ Gestion des sédiments – synergies entre l’aménagement et l’écologie des cours d‘eau “ (V46/19). EPF Lausanne, February 7, 2019
2017 -	Invited lecture on „Wirkungskontrolle bei Flussrevitalisierungen – für einen effektiven Einsatz der Mittel”. Lecture series “Policy Analyse I: Politikprozesse und Instrumente” at University Berne, Switzerland.
2017	PEAK-KOHS Course „Sedimentmanagement in Fliessgewässern – Synergien zwischen Wasserbau und Ökologie “ (V46/17). Eawag, Dübendorf, November 22, 2017
2016 - 2022	Invited lecture on “Interactions between river morphology and organisms”. Lecture series “Eco-morphologie fluviale” in the Master’s Course « Sciences et ingénierie de l'environnement » at EPF Lausanne, Switzerland.
2016 -	Lecture “Revitalisierung von Fliessgewässern ”, ETH Zurich (in collaboration with Dr. V. Weitbrecht)
2015 -	Lecture “Fliessgewässer: Konzepte und Methoden für ein nachhaltiges Management”, ETH Zurich (in collaboration with Prof. Dr. Ch. Scheidegger, Dr. Sabine Fink and Dr. V. Weitbrecht)
2015	Invited lecture on “Gemeinsam lernen für ein nachhaltiges Gewässermanagement: Praxis-orientierte Forschung an Fliessgewässern“. High School Teacher Education University of Zurich – Biology Section (“Fachwissenschaftliche Vertiefung in Biologie für Lehrer”).
2015 -	Invited lecture on “Fliessgewässerrevitalisierung und Erfolgskontrolle”. Module “Gewässerökologie und Revitalisierung” at the Zurich University of Applied Sciences - School of Life Sciences and Facility Management, Wädenswil, Switzerland.

2014	PEAK-Course „Methoden des Fliessgewässermanagements“ (B23/14). Eawag, October 21-22, 2014
2014	Lecture “Binnengewässer: Konzepte und Methoden für ein nachhaltiges Management”, ETH Zurich (in collaboration with Prof. Dr. Ch. Scheidegger and Dr. A. Peter)
2009	Invited lecture on “Ende gut, alles gut? Erfolgskontrolle bei Revitalisierungen von Fliessgewässern“. Module ‘Water’ at the Zurich University of Applied Sciences (ZHAW) - School of Life Sciences and Facility Management, Wädenswil, Switzerland.
2009	Invited lecture on “Fliessgewässer bewerten: Die Ökomorphologie Stufe F”. Module “Riverwatch” at the World Wildlife Fund for Nature, Zurich, Switzerland.
2004	‘Systempraktikum’ at the Thur River, ETH Zurich, Switzerland.
2002 - 2006	Assistance and teaching activities in diverse field courses, ETH Zurich, Switzerland.
1995-1997	Replacement teacher at the secondary school in Sumiswald (german, french, english, history)

15. Further training

2023	Media training for female researchers. Swiss National Science Foundation.
2023	Workshop Diversity and Avoiding Discrimination, Eawag, Switzerland
2017	Workshop Knowledge Brokering, Eawag, Switzerland
2014	Workshop Leadership, Eawag, Switzerland
2014	Facilitating meetings and workshops in interdisciplinary groups, ETH Zurich, Switzerland.
2010	Fish marking techniques: PIT-tagging. Swedish University of Agricultural Sciences, Sweden.
2007	Time Series Analysis Course, Eawag, Switzerland.
2005	Project Management Course, Eawag/ EMPA, Switzerland.
2005	Electrofishing Training for Instructors, Eawag, Switzerland.
2004 - 2005	Science and Politics of International Freshwater Management (Seminar), ETH Zurich, Switzerland.
2003	Writing English for Science, Eawag, Switzerland.
2002	GIS Course, Eawag, Switzerland.

16. Additional skills

Languages

Language	*Level*	*Professional experiences*
German	Mother tongue	Mother tongue
French	Advanced	Courses and presentations, e.g. at EPF Lausanne, PEAK courses Position at the county administration, Canton Fribourg. Collaboration with EPFL during my PhD thesis, including presentations and co-authorship in articles in French. French-German translation of chapter 5 from the Swiss Red List of Lichens.
English	Advanced	Scientific work and publishing in Switzerland and abroad, presentations at national and international conferences, international collaborations.
Swedish	Basic	Two year postdoc at Umeå University, Sweden. Collaboration with local people (e.g., fishermen, county administration). Public outreach (e.g., field day for local third-graders).

Computer: Extensive experience with PC and Macintosh computers and a large variety of software (e.g., Office, SPSS, ArcMap, EndNote, MARK).

17. Publications

a. Peer-reviewed articles

Published or accepted for publication

Lecrivain, A., de Cesare, G., **Weber, C.**, Bätz, N. Macroinvertebrate habitat dynamics under frequent hydropower-induced discharge fluctuations: patch-scale metrics to quantify effects of hydropeaking and morphological complexity. *Environmental Management*. 76 (9): 279.

Bätz, N., Hayes, D.S., Lecrivain, A., Greimel, F., Auhser, A., Vanzo, D., **Weber, C.** Restless rivers: impacts of frequent hydropeaking on habitat dynamics. *AQUA - Water Infrastructure, Ecosystems and Society.* jws2026126.

Hischier, C.M., Bätz, N., Rachelly, C., Demuth, P., Weitbrecht, V., Vetsch, D., Dinkel, C., **Weber, C.** (2026). From habitat heterogeneity to flood refugia: linking flow intensity and morphology to inform river management. *Science of the total Environment*. 1018: 181484.

Friese, N., Mathers, K.L, **Weber, C.**, Tonolla, D., Bätz, N. (2025). Habitat-specific response of macroinvertebrate drift to flow pulses: implications for hydropeaking management. *Freshwater Ecology*. 70(10): e70103.

Bätz, N., Judes, C., Vanzo, D., Lamouroux, N., Capra, H., Baumgartner, J., Berger, B., **Weber, C.** 2025. Patch-scale habitat dynamics: three metrics to assess ecological impacts of hydropeaking frequency. *Journal of Ecohydraulics.* 10: 79-106.

Hayes, D.S., Bätz, N., Tonolla, D., Merl, K., Auer, S., Gorla, L., **Weber, C.**, Naudascher, R., Silva, L., Schmutz, S., Unfer, G., Führer, S., Zeiringer, B., Greimel, F. 2025. Why hydropeaking frequency matters: effects of recurring stranding on fish. *Journal of Ecohydraulics*. 1-17.

Mathers, K.L., Robinson, C.T., Hill, M., Kowarik, C., Heino, J., Deacon, C., **Weber, C.** 2024. How effective are ecological metrics in supporting conservation and management in degraded streams? *Biodiversity and Conservation*. 33: 3981-4002.

Antonelli, M., Laube, P., Döring, M., Scherelis, V., Wu, S., Hurni, L., Heitzler, M., **Weber, C.** 2024. Identifying anthropogenic legacy in freshwater ecosystems. *WIREs Water*. e1729.

Kowarik, C., Martin-Creuzburg, D., Mathers, K.L., **Weber, C.**, Robinson, C.T. 2023. Stream degradation affects aquatic resource subsidies to riparian ground-dwelling spiders. *Science of the total Environment*. 855: 158658.

Bätz, N.*, Judes, C.*, **Weber, C.** 2023. Nervous habitat patches: The effect of hydropeaking on habitat dynamics. *River Research and Applications*. 39(3): 349-363. *Both authors contributed equally

Hoffmann, S.*, **Weber, C.***, Mitchell, C. 2022. Leading, learning, synthesizing – three key components and their interactions in inter- and transdisciplinary research. *BioScience.* 72(10): 963-977. *Both authors contributed equally

Mathers, K.L., Robinson, C.T., **Weber, C.** 2022. Patchiness in flow refugia use by macroinvertebrates following an artificial flood pulse. River Research and Applications 38: 696-707.

Shipley, J.R., Twining, C., Mathieu-Resuge, M., Parmar, T.P., Kainz, M., Martin-Creuzburg, D., **Weber, C.**, Winkler, D.W., Graham, C.H., Matthews, B. 2022. Climate change shifts the timing of nutritional flux from aquatic insects. *Current Biology*. 22: 1-8.

Mathers, K.L., Robinson, C.T., **Weber, C.** 2021. Artificial flood reduces fine sediment clogging, and enhances subsurface physicochemical conditions and hyporheic accessibility for macroinvertebrates. *Ecological Solutions and Evidence*. 2(4): e12103.

Mathers, K.L., Kowarik, C., Rachelly, C., Robinson, C.T., **Weber, C.** 2021. The effects of sediment traps on instream habitat and macroinvertebrates of mountain streams. *Journal of Environmental Management.* 295: 113066.

Rachelly, C., Mathers, K.L., **Weber, C.**, Weitbrecht, V., Boes, R., Vetsch, D. 2021. How does sediment supply influence refugia availability in river widenings? *Journal of Ecohydraulics*. 1-19.

Aksamit, C., Carolli, M., Vanzo, D., **Weber, C.**, Schmid, M. 2021. Macroinvertebrate recovery to varying hydropeaking frequency: a small hydropower plant experiment. *Frontiers in Environmental Science*. 8(300)-Article 602374.

Mathers, K.L., Michalec, F.-G., Holzner, M. and **Weber, C.** 2020. Beneath the surface: Application of transparent super absorbent polymer substrates to track faunal activity within the sediment layer. *Freshwater Biology* 65(11): 1923-1935.

Lange, K., Wehrli, B., Åberg, U., Bätz, N., Brodersen, J., Fischer, M., Hermoso V., Reidy Liermann, C., Schmid, M., Wilmsmeier, L., **Weber, C.** 2019. Small hydropower goes unchecked. *Frontiers in Ecology and the Environment*. 5: 256-258.

Marttunen, M., **Weber, C**., Åberg, U., Lienert, J. 2019 Identifying relevant objectives in environmental management decisions: An application to a national monitoring program for river restoration. *Ecological Indicators*. 101: 851-866.

Roni, P., Åberg, U., **Weber, C.** 2018. A review of approaches for monitoring the effectiveness of regional river habitat restoration programs. *North American Journal of Fisheries Management*. 38: 1170-1186.

Lange, K., Meier, P., Trautwein, C., Schmid, M., Robinson, C., **Weber, C.**, Brodersen, J., 2018. Basin-scale effects of small hydropower on biodiversity dynamics. *Frontiers in Ecology and the Environment*. 16: 397-404.

Gaudard, A., **Weber, C.**, Alexander, T., Hunziker, S., Schmid, M. 2018. Impacts of using lakes and rivers for extraction and disposal of heat. *WIREs Water*. e1295.

Weber, C., Åberg, U., Buijse, A.D., Hughes, F.M.R., McKie, B.G., Piégay, H., Roni, P., Vollenweider, S., Haertel-Borer, S., 2017. Goals and principles for programmatic river rehabilitation monitoring and evaluation: Collaborative learning across multiple projects. *WIREs Water* 2017, e1257.

Weber, C., Scheuber, H., Nilsson, C., Alfredsen, K.T., 2016. Detection and apparent survival of PIT-tagged stream fish in winter. *Ecology and Evolution*. 6 (8):2536-2547.

Kurth, A., **Weber, C.**, Schirmer, M., 2015. How effective is river restoration in re-establishing groundwater – surface water interactions? A case study. *Hydrology and Earth System Sciences* 19: 2663-2672.

Lind, L., Nilsson, C., **Weber, C.** 2014. Effects of ice and floods on vegetation in streams in cold regions: implications for climate change. *Ecology and Evolution* 4: 4173-4184.

Lind L, Nilsson C, Polvi L.E., **Weber C.** 2014. The role of ice dynamics in shaping vegetation in flowing waters. *Biological Reviews* 89: 791-804.

Weber, C., Nilsson, C., Lind, L., Alfredsen, K., Polvi, L., 2013. Winter disturbances and riverine fish in temperate and cold regions. *BioScience*. 63: 199-210.

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Engström, J., Jansson, R., Nilsson, C., **Weber, C.**, 2011. Effects of river ice on riparian vegetation. *Freshwater Biology*. 56: 1095-1105.

Weber, C., Schager, E., Peter, A., 2009. Habitat diversity and fish assemblage structure in local river widenings: A case study on a Swiss river. *River Research and Applications*. 25: 687-701

Weber, C., Peter, A., Zanini, F., 2007. Spatio-temporal analysis of fish and their habitat: A case study on a highly degraded Swiss river system prior to extensive rehabilitation. *Aquatic Sciences* 69: 162-172.

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Charrat, B., Floury, M.; Palt, M., Jeliazkov, A., Stoll, S., Tales, E., Verdonschot, R., **Weber, C.**, Lorenz, A., Le Pichon, C., Piffady, J. Towards a multi-metric assessment of river restoration ecological outcomes across projects and contexts. *River Research and Applications*

Demuth, P., Hischier, C.M., **Weber, C.**, Weitbrecht, V., Boes, R., Vetsch, D. Quantifying habitat complexity in restored widened river reaches using landscape metrics. *Journal of Ecohydraulics*

In elaboration

Antonelli, M., Scherelis, V., Weber, C. Metric-based analysis of the historical drivers of surface hydrological connectivity.

Bühlmann, I., **Weber, C.**, Vetsch, D., De Cesare, G. Belser, A., Fink, S., Resilient rivers – concepts, definitions and key attributes.

b. Other articles

Weber, C. (2026). Flüsse und Bäche revitalisieren – und daraus lernen! Hotspot, 53, 9-11

Weber, C. (2026). Revitalisier les cours d'eau – et en tirer les leçons! Hotspot, 53, 9-11

Bätz, N., Hayes, D.S., Lecrivain, A., Greimel, F., Auhser, A., Vanzo, D., & **Weber, C.** (2026). Nervöse Fliessgewässer – Auswirkungen der Schwall-Sunk-Frequenz auf die Lebensraumdynamik. hydrosuisse journal, 118, 35-43

Bätz, N., Hayes, D.S., Lecrivain, A., Greimel, F., Auhser, A., Vanzo, D., & **Weber, C.** (2026). Rivières agitées – Effets de la fréquence des éclusées sur la dynamique des habitats. hydrosuisse journal, 118, 35-43

Antonelli, M., Scherelis, V., Wu, S., Laube, P., Döring, M., Hurni, L., Heitzler, M., **Weber, C.** (2024). Quantitative Analyse von Fliessgewässerökosystemen und ihrer Dynamik anhand digitalisierter historischer Karten. Wasser Energie Luft, 116, 259-266

Antonelli, M., Scherelis, V., Wu, S., Laube, P., Döring, M., Hurni, L., Heitzler, M., **Weber, C.** (2024). Exploration quantitative des écosystèmes fluviaux et de leur dynamique à l'aide de cartes historiques numérisées. Wasser Energie Luft, 116, 259-266

Antonelli, M., Scherelis, V., Wu, S., Laube, P., Döring, M., Hurni, L., Heitzler, M., **Weber, C.** (2024). Exploring river ecosystems and their dynamics through digitised historical maps. Wasser Energie Luft, 116, 259-265

Wechsler T, **Weber C.** 2024. Das umkämpfte Restwasser - Im Spannungsfeld dreier Krisen. *Bulletin Electrosuisse* 4: 40-43.

Fink, S., Belser, A., de Cesare, G., **Weber, C.**, Vetsch, D. 2024. Wasserbau und Ökologie: interdisziplinäre Forschung für resiliente Fliessgewässer. *Wasser Energie Luft* 116(1): 54-57.

Friese, N., Tonolla, D., **Weber, C.**, Mathers, K.L., Bätz, N. 2024. Feldexperiment zur Drift von Makroinvertebraten unter Schwall-Sunk. *Wasser Energie Luft* 116(1): 33-41.

Friese, N., Tonolla, D., **Weber, C.**, Mathers, K.L., Bätz, N. 2024 Etude expérimentale de terrain sur la dérive des macroinvertébrés lors des éclusées - Influence des contraintes hydrauliques et du type d'habitat. *Wasser Energie Luft* 116(1): 31-39.

Weber, C., Belser, A., De Cesare, G., Fink, S., Vetsch, D. 2022. Wasserbau UND Ökologie: Zusammenarbeit über Disziplinen und Berufsfelder hinweg. *Ingenieurbiologie* 20(4): 12-20.

Twining, C.W., **Weber, C.**, Kowarik, C., Gossner, M.M., Graham, C.H., Matthews, B. Shipley, J.R. 2022. Zum Fressen gern: Unsere Gewässer aus der Vogelperspektive. *Wasser Energie Luft* 114: 68-74.

Fink, S., Belser, A., De Cesare, G., **Weber, C.**, Vetsch, D. 2022. Resiliente Fliessgewässer: Refugien - Vernetzung - Trittsteine. *N + L Inside* 22: 23-27.

Friese, N., **Weber, C.**, Rachelly, C., Weitbrecht, V., Bätz, N. 2022. Kleinräumige baulich-morphologische Massnahmen in der Schwall-Sunk-Sanierung: Wirksamkeit für das Makrozoobenthos? *Wasser Energie Luft* 114(1): 9-17.

Friese, N., **Weber, C.**, Rachelly, C., Weitbrecht, V., Bätz, N. 2022. Mesures morphologiques ponctuelles dans le cadre de l'assainissement des éclusées : quels bénéfices pour le macrozoobenthos ? *Wasser Energie Luft* 114(1): 18-28.

Mathers, K.L., Robinson, C.T., **Weber, C.**, Wood, P. 2022. The importance of substrate heterogeneity and vertical hydrological connectivity for ecological diversity. *Proceedings of the International Symposium on Bedload Management* 11-15.

Sprecher, L., Baumgartner, S., Thomas, G., **Weber, C**., 2020. Zwei Elemente – ein Ziel: wirkungsvolle Revitalisierungen. *Ingenieurbiologie* 20 (4): 20-27.

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Weber, C., Lange, K., Bätz, N., Schmid, M., Wehrli, B., 2020. Kleine Anlage – kleiner Eingriff? Auswirkungen von Kleinwasserkraftwerken auf Fliessgewässer. *Wasser Energie Luft* 112 (1): 35-40.

Weber, C., Sprecher, L., Åberg, U., Thomas, G., Baumgartner, S., Haertel-Borer, S., 2020. Wirkungskontrollen mit Wirkung: Gemeinsam lernen für Revitalisierungen. *Wasser Energie Luft* 112 (1): 41-47.

Weber, C., 2018. Mögen Biber und Forelle die Rolling Stones? Über Kies und Co in kleinen Gewässern. *Ingenieurbiologie* 18 (4): 21-28.

Bätz, N., **Weber, C.** 2018. Hydropeaking mitigation in Switzerland: collaborative learning between research and practice. Proceedings to the I.S. Rivers Conference in Lyon.

Thomas, G., Åberg, U., **Weber, C.** 2018. Towards a collaborative learning in river restoration in Switzerland. Proceedings to the I.S. Rivers Conference in Lyon.

Weber, C. 2018. Comparing apples and oranges? Accounting for project diversity in monitoring and evaluation programs for river restoration. Proceedings to the I.S. Rivers Conference in Lyon.

Fink, S., Belser, A., Juez, C., Scheidegger, C., **Weber, C.**, Vetsch, D. 2018. „Lebensraum Gewässer – Sedimentdynamik und Vernetzung", ein Projekt im Forschungsprogramm „Wasserbau und Ökologie". *N + L Inside*: 18(4): 27-32.

Vetsch, D., Di Giulio, M., Franca, M.F., Juez, C., Scheidegger, C., **Weber, C.**, 2018. Erkenntnisse aus dem Projekt "Geschiebe- und Habitatsdynamik". *Wasser Energie Luft* 110 (3):195-200.

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Vetsch, D., **Weber, C.**, Scheidegger, C., and Franca, M. F. 2016. Freier Lauf für Fliessgewässer. *Der Bauingenieur* 4:10-11.

Weber, C., Junker, J. 2015. Reha für Rhein und Co. *VSAO Journal* 4: 32-34.

Hanus, E. **Weber, C.** 2015. Les cours d'eau dans les aires protégées de Suisse: distribution, état écologique et protection. *Bulletin de l'ARPEA* 265: 19-26.

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