

Clemens Trautwein (CV, March. 2016)

Personal details

Address: Eawag – Swiss Federal Institute of Aquatic Science and Technology, CH-6047 Kastanienbaum
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Academic degree

2009 - 2013 Doctorate studies (Dr.nat.techn.). University of Natural Resources and Life Sciences Vienna (BOKU)
2000 - 2007 Diploma (Diplom Ingenieur): Landscape planning and landscape management. University of Natural Resources and Life Sciences Vienna (BOKU)
2012 - present Bachelor of education: agrarian pedagogy and consulting Hochschule für Agrar- und Umweltpädagogik, Wien

Employment record

2014 - present Post-doctoral researcher, Swiss Federal Institute of Aquatic Science and Technology (Eawag)
2008 – 2014 Lecturer, Institute of Hydrobiology & Aquatic Ecosystem Management, University of Natural Resources and Life Sciences Vienna (BOKU): Introduction to GIS, GIS in riverscape planning, human impacts in riverine landscapes, Data mining, study design and statistics in aquatic ecology
2006 - 2013 Research fellow, Institute of Hydrobiology & Aquatic Ecosystem Management, University of Natural Resources and Life Sciences Vienna (BOKU)
Main projects: model based instrument for river restoration (AT), European Fish Index *plus* (EU), Landscape Pressure Fish Cascades (AT, FWF)
2011 Guest researcher at NOAA Pacific northwest fisheries science centre, Seattle, WA, USA (Apr-Jul)
2011 Visiting researcher at USDA Forest Service, Pacific Wildland Fire Science Lab, Seattle, WA, USA (Apr-Jul)

Skills and qualifications

Languages German (excellent, first language), English (fluent, spoken & written), French (fair, passive), Hungarian (basic knowledge)
Certificates Writing in English, Presenting in English, Scientific Writing, Instruction to electric fishing
IT skills ESRI ArcGIS, SPSS Statistics, R-language, Python, MS office, Adobe Illustrator, Photoshop, InDesign, div. GPS software

Field of research

Aquatic ecology, stream ecology, river morphology, ecosystem assessment, human impacts, river rehabilitation, hydro-power mitigation, disturbance ecology,

Research grants

2007 ESF Grant for the IALE 2007 Intensive Master Courses: Environmental Impact Assessment
2009 - 2012 FWF, Der Wissenschaftsfond. Project P 21735: 'Landscape - pressure - fish - cascades (LANPREF)'. PhD.

Publications, presentations, reviewing

Journal articles 7 scientific articles in peer-reviewed journals

Mostafavi H., Pletterbauer F., Coad B. W., Mahini A. S., Schinegger R., Unfer G., **Trautwein C.**, Schmutz S. (2014) Predicting presence and absence of trout (*Salmo trutta*) in Iran. *Limnologica - Ecology and Management of Inland Waters*, 46, 1–8.

Trautwein C., Schinegger R. & Schmutz S. (2013) Divergent reaction of fish metrics to human pressures in fish assemblage types in Europe. *Hydrobiologia*.(Online first)

Trautwein C., Schinegger R. & Schmutz S. (2011) Cumulative effects of land use on fish metrics in different types of running waters in Austria. *Aquatic Sciences* 74, 329–341.

Schinegger R., **Trautwein C.**, Melcher A. & Schmutz S. (2012) Multiple human pressures and their spatial patterns in European running waters. *Water and Environment Journal* 26, 261–273.

Schinegger R., **Trautwein C.** & Schmutz S. (2013) Pressure-specific and multiple pressure response of fish assemblages in European running waters. *Limnologica* 43, 348–361.

Steel EA, Hughes RM, Fullerton AH, Schmutz S, Young J, Fukushima M, Muhar S, Poppe M, Feist BE, **Trautwein C** (2010) Are We Meeting the Challenges of Landscape-Scale Riverine Research ? A Review. *Living Reviews in Landscape Research*; 4(1).

Schmutz, S., A. Melcher, S. Muhar, A. Zitek, M. Poppe, **C. Trautwein** & M. Jungwirth, 2008. MIRR – Model-based Instrument for River Restoration. Entwicklung eines strategischen Instruments zur integrativen Bewertung ökologischer Restaurationsmaßnahmen an Fließgewässern. [MIRR - Model-based Instrument for River Restoration. Developing a strategic instrument for the integrated assessment of ecological stream restoration measures]. *Österreichische Wasser- und Abfallwirtschaft*. Heft 05-06/2008.

Conference talks

8 talks at international scient. Conferences; 2 invited talks (NOAA Seattle, EPA Corvallis)

SEFS9 2015, Geneva (Switzerland) – Symposium of the European Freshwater Society

ISE 2012, Vienna (Austria) – International Symposium on Ecohydraulics

SIL Austria 2012, Pörtlach (Austria) – Societas Internationalis Limnologiae Austria

ISRS 2011, Berlin (Germany) – Rivers as Linked Systems

Talk in Seminar Series 2011, Corvallis (Oregon; USA), Oregon State University, Department of Fisheries and Wildlife & Environmental Protection Agency.

NOAA NWFSC Monster Seminar JAM 2011, Seattle (Washington, USA) – NOAA northwest fisheries science center

IWA-YWP 2010, Vienna (Austria) – International Water Association, Young Water Professionals

EFI+ Symposium 2009, Hull (Unit. Kingdom) – International symposium on improving the ecological status of fish communities in inland waters

SIL Austria 2009, Salzburg (Austria) – Societas Internationalis Limnologiae Austria

IALE 2007, Wageningen (Netherlands) – International Association for Landscape Ecology, 7th World congress

Reviewing

Environmental Management, Water - Open Access Journal

Workshops and conferences co-organised

2008

WATER 2048, Guaranteeing aquatic ecosystem services in urbanised landscapes, Lunz, Austria