

# Résumé

## Clemens Trautwein

Date/Place Birth: 25.10.1980 in Kirchdorf/Krems - Austria

Eawag – Swiss Federal Institute of Aquatic Science and Technology  
Seestrasse 79  
CH-6047 Kastanienbaum  
Switzerland

Phone: +41 (0)58 765 22 09

E-Mail: clemens.trautwein@eawag.ch

*'keep learning, push innovation, build good teams'*

### Profile

You find a researcher in stream ecology, GIS-worker, statistician, programmer, scientific writer and speaker with nine years of experience in international project collaboration and management, teamwork research, publication and teaching. I want to further develop my skills in large-scale analysis and modelling with management and handling of large multi-relational datasets.

In my **career** I published research results in peer-reviewed journals that are renowned in the scientific field of aquatic ecology and gave talks at several international conferences. The commitment to good teamwork, innovative solutions and permanent personal development is very important for me. In the last years I developed comprehensive R-scripts, manipulated and adapted Python-scripts, engineered routines in ArcGIS and MS Access databases, handled large spatial datasets of river-catchments and land use at the European scale. I conducted extensive spatial and statistical analysis. Recently, I conducted a multi-site field study and was responsible for study design, sampling in the field, lab work, dataset preparation and analysis.

### Education

2009/06-2013/11	Doctorate studies (Dr.nat.techn.) Dissertation: Impacts of land use and human pressures on riverine fish in European river types University of Natural Resources and Life Sciences Vienna (BOKU)
2000/10-2007/03	Diploma: Landscape planning and landscape management University of Natural Resources and Life Sciences Vienna (BOKU)
2012/10- present	Bachelor of education: agrarian pedagogy and consulting Hochschule für Agrar- und Umweltpädagogik, Wien

### Relevant professional activities

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

### Languages, 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

### Relevant publications (peer-reviewed)

- 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).

### Relevant conference talks

- SEFS9 2015, Geneva (Switzerland) – Symposium of the European Freshwater Society
- ISE 2012, Vienna (Austria) – International Symposium on Ecohydraulics
- SIL Austria 2012, Pörschach (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) – Internatioinal 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

### Workshop and conference co-organization

- WATER2048 (2008), Lunz (Austria). Guaranteeing aquatic ecosystem services in urbanised landscapes