

Curriculum Vitae

Contact and personal data:

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Date of birth: 12. Dezember 1985
Home town: Locarno
Nationality: Swiss
Marital status: unmarried; Jan 2013 loss of the partner in an accident

Education and qualifications:

- May 2018* High Performance Computing and UBELIX (Science IT Support Universität Bern)
- Jan 2018* Introduction to Python for science 1 and 2 (Science IT Support Universität Bern)
- Mar 2017* Continuing education: “CRUEX++ Training course on Flood Safety of Dams“, Ittigen, Swiss Federal Office of Energy
- 2010-2015* **PhD Thesis** in the framework of the MontanAqua project, part of the National Research Programme **NRP 61 Sustainable Water Management**, founded by the Swiss National Science Foundation **SNSF**
Hydrology Group at the Institute of Geography, Universität Bern
- Sept 2015* Continuing education: “Workshop Model Calibration and Uncertainty Analysis Using PEST“ by Université de Neuchâtel
- Sept 2015* Swiss-academies second prize award for transdisciplinary research «distinguished achievement» for the NRP 61 MontanAqua project
- Jan 2015* Continuing education: “Effective presentations in english” by Marc Matter, “Hochschuldidaktik” (university didactic) Universität Bern
- 2004-2009* Swiss Federal Institute of Technology **ETH Zürich**
attendace of studies of **Environmental Engineering**
Major courses: **Water Resources Management and Hydraulic Engineering**
- Jun 2004* Federal Highschool Graduation, Collegio Papio Ascona;
Zonta Club of Locarno award for the best graduation among females enrolled in engineering studies (first semester scholarship).

Practical Experience:

- Jul 2018- dato* **Post Doc:** hydrological modelling for impact-oriented flood warning, **MAAREplus-** Towards short-term flood impact forecasting systems
Mobililar Lab for Natural Risks, Oeshger Center for Climate Change Research, Universität Bern
- Dec 2018- dato* **Grant for further analysis and supervision of an assistant:** hydrological and hydraulic modelling to provide hazard information for extreme flood events on the rivers Aare and Rhine (**EXAR**)
Hydrology Group at the Institute of Geography, Universität Bern
- Jan 2016- dato* **Post Doc:** hydrological and hydraulic modelling to provide hazard information for extreme flood events on the rivers Aare and Rhine (**EXAR**)
Hydrology Group at the Institute of Geography, Universität Bern
- Apr 2014- dato* Translations (German-Italian) for the Hydrological Atlas of Switzerland in the Hydrology Group at the Institute of Geography, Universität Bern
- 2010- dato* Supervision of bachelor and master students
- Jun 2014- Dec 2015* **Assistant** in the **Hydrology Group at the Institute of Geography, Universität Bern**
- Jan-Mar 2014* Translation (German-Italian) of the factsheet “Water in Switzerland- an overview” by the Swiss Academies of Arts and Sciences (both the short and the long versions)

Sept 2009 3 months assistant at the Laboratory of Aerothermochemistry and Combustion Systems (LAV, ETH Zürich)

Sept 2008 3 months practical training at Duffill Watts Ltd. (Auckland, New Zealand)

Computer skills:

Mathematics and Programming:
Matlab proficient
R good
Fortran basic knowledge
C/C++ basic knowledge
Python basic knowledge

Engineering:

GIS:
ArcGIS proficient
QGIS proficient
GRASS very good
RSaga good

Hydrological and hydraulic Models:

Pihm proficient
PRMS very good
RS Minerve very good
HBV good
Basement ETH good

Languages:

Italian: mother tongue (C2)
German: fluently written and spoken (C1)
French: fluently written and spoken (B2)
English: fluently written and spoken (C1)
2010 TOEFL Diploma: 97 Points

Extracurricular activities:

- 2018- dato regional group **coordinator** of Bern for the **Swiss association of women environmental professionals** (FachFrauen Umwelt or ffu-pee)
- 2014- dato Volunteering for the concert series Beeflat (PROGR, Turnhalle), as well as for the socio-cultural center including people with disabilities Heitere Fahne
- 2013- dato Active member of the Länggasse/Bern Transition town association (grassroot community initiative for building resilience in response to peak oil, climate change and financial crisis)
- 2012- dato Active member of the cooperative radiesli (community supported agriculture project)
- 2018 Part of the **organising committee** of the **Swiss Geoscience Meeting 2018**
- Mar-Jul 2014 Scientific Drawing course by Tom Reed, organized by Prof Jaboury Ghazoul, of the Institute of Terrestrial Ecosystems (ITES), Ecosystem Management + Forest Management & Development, ETHZ
- 2007 – 2008 Occasionally assistance for the Institute Minerva with written and oral DELF (Diplôme d'Etudes en Langue Française) examinations
- 2004 – 2007 International Film Festival of Locarno (Prix du Public and receptions)
- 2004 – 2007 Voluntary service at Campo di Olivone of the Vita Serena foundation (summer campus for people with disabilities)

References:

- Dr. Bruno Schädler

E-mail: bruno.schaedler@hispeed.ch

- Prof. Dr. Rolf Weingartner

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Project leader of the "Hydrological Atlas of Switzerland",
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- Dr. Andreas Paul Zischg

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Publications:

Schneider F, Bonriposi M, Graefe O, Herweg K, Homewood C, Huss M, Kauzlaric M, Liniger H, Rey E, Reynard E, Rist S, Schädler B, Weingartner R. 2016. *Montanaqua: Tackling Water Stress in the Alps*. GAIA-ecological perspectives for science and society 25(3), pp.191-193, oekom Verlag
DOI: <https://doi.org/10.14512/gaia.25.3.11>

Kauzlaric M. 2015. A physically based hydrological framework to assess the effects of climate change in a data sparse alpine environment. PhD Thesis, Faculty of Science, Universität Bern

Weingartner R, Kauzlaric M. 2014. Impacts of Global Warming on Mountain Runoff: Key Messages From the IPCC Report. In: Kohler T, Wehrli A & Jurek M, eds. 2014. *Mountains and climate change: A global concern*. Sustainable Mountain Development Series. Bern, Switzerland, Center for Development and Environment (CDE), Swiss Agency for Development and Cooperation (SDC) and Geographica Bernensia. 136 pp.

Weingartner R, Schädler B, Reynard E, Bonriposi M, Graefe O, Herweg K, Homewood C, Huss M, Kauzlaric M, Liniger H, Rey E, Rist S, Schneider F. 2014. *MontanAqua: Wasserbewirtschaftung in Zeiten von Knappheit und globalem Wandel Wasserbewirtschaftungsoptionen für die Region Crans-Montana-Sierre im Wallis*. Forschungsbericht des Nationalen Forschungsprogramms NFP 61. Schweizerischer Nationalfonds NFP 61, ISBN: 978-3-9524412-0-6.

Schneider F, Bonriposi M, Graefe O, Herweg K, Homewood C, Huss M, Kauzlaric M, Liniger H, Rey E, Reynard E, Rist S, Schädler B, Weingartner R. 2014. Assessing the sustainability of water governance systems: the sustainability wheel. *J. Environ. Plan. Manag.* DOI: 10.1080/09640568.2014.938804

Reynard E, Bonriposi M, Graefe O, Homewood C, Huss M, Kauzlaric M, Liniger H, Rey E, Rist S, Schädler B, Schneider F, Weingartner R. 2014. Interdisciplinary assessment of complex regional water systems and their future evolution: how socioeconomic drivers can matter more than climate. *WIREs Water* 1 (4):413–426. DOI: 10.1002/wat2.1032