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Johannes Brenner

Junior Researcher | Eco-Hydrology

Professional career

2014

Junior Research Assistent, *EURAC, Institute for Alpine Environment*, Bozen/Bolzano.
eco-hydrological simulations with GEOtop and SWAT, eco-hydrologic climate impact studies at catchment scale, data management, organisation/realisation of field work (LTsER site Matsch/Mazia).

Education | Academic Training

2014

Seminars and Workshops.
e.g. School on Data analysis and programming with R (University of Bolzano, 3days), Managing Open Science (EURAC research, 1day), Tri-Nationaler Workshop - Hydrologische Prozesse im Hochgebirge im Wandel der Zeit (Obergurgl, AT, 3days).

2015

SummerSchool, *"Facing Natural Hazards"*, Potsdam.
hosting institutions: IASS, PIK, GFZ, AWI, University of Potsdam

2015

MasterClass, *"Climate Services"*, European Academy (EURAC), Bozen/Bolzano.
organized within the EUPORIAS project.

2011–2014

Scientific Assistent, *Institute of Earth and Environmental Science, Working Group Hydrology and Climatology*, University of Potsdam.
installation and maintenance of a micro-rain radar (Sölden, Austria), contribution to an open source library for processing weather radar data (wradlib), data analysis (R), literature review (Mendeley).

2011–2014

Master's programme Geoecology, *Institute of Earth and Environmental Science*, University of Potsdam, Graduation with distinction (1.2).
Thesis: "Spatial variability and temporal trends of soil moisture and evapotranspiration in an inneralpine dry catchment". Supervised by Prof. Axel Bronstert & Dr. Giacomo Bertoldi.

2011

Internship, *Potsdam Institute for Climate Impact Research (PIK)*, Potsdam.
Processing and analysis of climate and land use data as input for the Dynamic Global Vegetation Model LPJ with the statistic computing language *R*. Supervised by Dr. Kirsten Thonike.

2010

Field Work, *Nacimiento*, Chile.
Determining soil hydraulic (e.g. hydraulic conductivity), terrain and vegetation characteristics in a forest catchment for parametrisation of the hydrological model WASA-Sed.

2009

Tutor "mathematics for Geoecologists", *Institute of Earth and Environmental Science*, University of Potsdam.

2007–2011

Bachelor's programme Geoecology, *Institute of Earth and Environmental Science*, University of Potsdam.
Thesis: "Modelling of sediment transport in a deforested catchment with *WASA-Sed* (Nacimiento, Chile)" Supervised by Prof. Axel Bronstert & Dr. Christian Mohr (Institute of Earth and Environmental Science, University of Potsdam). Funded by DAAD scholarship "Thesis abroad".

Skills

IT applications and development

HydroModels	GEOtop, SWAT, WASA-Sed	Geoinfo	QGIS, GRASS, SAGA, ArcGIS
DataAnalysis	R, Concave	Programming	Python, Fortran
Operating Systems	GNU/Linux (Ubuntu, RedHat), Windows	Tools	GitHub, Mendeley, Overleaf
Office	LibreOffice, MicrosoftOffice, Inkscape	Edition	LaTeX, Markdown

Foreign Languages

German	Native	*Mother Tongue*
English	Fluent	*Daily practice, scientific writing*
French	B1 Level	*Studied 5 years in school*
Italian	A2 Level	*Lived 3 years in South Tyrol (Italy)*

Participation in Research Projects

2014 — **MONALISA**, *"Monitoring key evironmental parameters in the alpine environment involving science, technology and application"*.
Junior Researcher responsible for eco-hydrological modeling for different land uses (apple orchards, Alpine grassland - meadow and pasture), data management and analysis.

2014 — **HiResAlp**, *"An innovative framework for the integration of multi-source data to determine soil moisture and evapotranspiration at high resolution in Alpine regions"*.
Junior Researcher responsible for field activities and point-scale/distributed eco-hydrological modeling in the LTsER site Mazia/Matsch.

2013–2014 — **HydroAlp**, *"Modelling the interactions between water cycle, vegetation and climate in Alpine Environments"*.
Master Student responsible for climate change impact assessment with the hydrological model GEOtop, results available via WEB-GIS.

Publications & Conference Proceedings

2015 — **Bertoldi G, Brenner J, Notarnicola C, Greifeneder F, Nicolini I, Della Chiesa S, Niedrist G, Tappeiner U**, *Monitoring soil moisture patterns in alpine meadows using ground sensor networks and remote sensing techniques.*, Geophysical Research Abstracts, Vol. 17, 2015, European Geosciences Union, General Assembly 2015 - Vienna, Austria, 12 – 17 April 2015 (poster).

2014 — **Brenner J, Bertoldi G, Della Chiesa S, Niedrist G, Tappeiner U, Bronstert A**, *Modellazione degli impatti del cambiamento climatico sulla distribuzione spaziale dell'evapotranspirazione, dell'umidita del terreno e del manto nevoso in una vallata alpina*, Atti del XXXIV Convegno Nazionale di Idraulica e Construzioni Idrauliche, Bari, 07 – 10 Sept 2014.

2014 — **Brenner J, Bertoldi G, Della Chiesa S, Niedrist G, Tappeiner U, Bronstert A**, *Modeling impacts of climate change on evapotranspiration and soil moisture spatial patterns in an alpine catchment*, Geophysical Research Abstracts, Vol. 16, 2014, European Geosciences Union, General Assembly 2014, Vienna, Austria, 27 April – 2nd May 2014 (talk).

2012 — **Brenner J, Faul F, Ittner S, Scheiffele L, Schlingmann A, Voß S, Weißhuhn P and Zoerner M (2012)**, *Ecosystem Services from Agro- and Forest Ecosystems*, openLandscape Wiki, Leibniz Centre for Agricultural Landscape Research (ZALF).

References

1 **Prof. Dr. Axel Bronstert**, *University of Potsdam*, Institute of Earth- and Enviromental Sciences, axelbron@uni-potsdam.de.

2 **Dr. Giacomo Bertoldi**, *European Academy Bozen/Bolzano*, Institute for Alpine Environment, Giacomo.Bertoldi@eurac.edu.