Curriculum Vitae



Christian Möck

Born March 7, 1983 in Germany Permanent relationship, 2 Children (Born 2011 and 2015) Citizenship: German

Contact and Address

Tramstrasse 91, 8050 Zürich, Switzerland

Phone: (+41) 789368213

Email:christian.moeck@eawag.ch

Skype: Christian Moeck

Research Interests

- Water resource management and protection
- Urban and contaminant hydrogeology
- Groundwater recharge and changes due to land use and climate change
- Numerical groundwater flow, transport and heat modelling
- Characterization of aquifer heterogeneity with field experiments and inverse modelling approaches
- Water quality and environmental impact assessment using established and novel (innovative) environmental tracers and methods
- Large-scale water balance calculation and applied geology

Academic Qualification

2010 - 2014 PhD in Hydrogeology

Université de Neuchâtel, Switzerland

Advisor: Prof. Daniel Hunkeler & Prof. Philip Brunner

Thesis: Evaluating the effect of climate change on groundwater resources:

from local to catchment scale

2007 - 2009 International M.Sc. in Hydrogeology and Environmental Science

Georg August University Göttingen, Germany

Advisor: Dr. Ralf Brauchler & Prof. Thomas Ptak

Thesis: Characterization of spatial variability of hydraulic subsurface

parameters: Hydraulic field testing and numerical modelling

2004 - 2007 B.Sc. in Geoscience

Georg August University Göttingen, Germany

Advisor: Prof. Gernot Arp & Dr. Andreas Reimer

Thesis: Hydrochemistry and biofilm calcification: Westhöfer Bachs, western

Harz mountain

Working experience

2020 - present Eawag and project manager of the Swiss groundwater network platform

(CH-GNet; building and management) – 80% employed, childcare

Eawag, Swiss Federal Institute of Aquatic Science and Technology, ETH

domain

2019 - 2020 Nagra – Project leader Hydrogeology - 80% employed, childcare

Nagra, National Cooperative for the Disposal of Radioactive Waste, Resort

Geoscience Wettingen, Switzerland

2017 - 2019 Eawag - Group deputy "Hydrogeology" with own funding (Group leader

during one-year Sabbatical Leave of Prof. Mario Schrimer) – from 2018 80%

employed, childcare

Eawag, Swiss Federal Institute of Aquatic Science and Technology,

Department water resource and drinking water, ETH domain

2017 Université Laval, Quebec – visiting fellow

Département de géologie et de genie géologique, Quebec, Canada

Short visiting fellow, collaboration with Prof. John Molson

2014 - 2016 **Eawag – PostDoc**

CURRICULUM VITAE - DR. CHRISTIAN MOECK

Project "Regional Water Supply Basel-Landschaft 21", responsible scientist for WP 3 – Drinking Water Management Hardwald

Eawag, Swiss Federal Institute of Aquatic Science and Technology, Department water resource and drinking water, ETH domain

2013 Research assistant

University of Neuchâtel, Switzerland

2009 Research assistant

Georg August University Göttingen, Germany

2006 Intern

AWIA Umwelt GmbH, Göttingen, Germany

2005 – 2008 Student assistant

Georg August University Göttingen, Germany

Teaching

Since 2011

Zones de protection des eaux souterraines (University of Neuchâtel, exercise for MSc students, 2011-2013 with Prof. Daniel Hunkeler and Dr. Ronald Kozel)

Groundwater recharge estimation (University of Neuchâtel, class for MSc students, 2015, with Prof. Mario Schirmer)

Contaminated sites and remediation (University of Neuchâtel, class for MSc students, 2015-2018, with Prof. Mario Schirmer)

Urban Hydrogeology (University of Neuchâtel, class for MSc students, 2016-2018)

catchment and integrating the urbanization factor in Fehraltorf, Switzerland

Students Supervised

Master Students Elizabeth Kiflay, MSc at IHE Delft, Title: Urban effects on groundwater recharge. Yong Wang, MSc at IHE Delft, Mentoring and examining committee, Supervisor Prof. Jewit, Title: Evaluating the Potential for Sustainable Groundwater Abstraction from the Limpopo Sand River Deposits in Mozambique. Maria Henao Salgado, MSc at Eawag and ETH Zuerich, with Prof. Mario Schirmer, Title: Estimating groundwater recharge rates in the upper Kempt

CURRICULUM VITAE – DR. CHRISTIAN MOECK

Morgane Minning, M.Sc. at Eawag and University of Lausanne, with Prof. 2017 Mario Schirmer & Prof. Urs von Gunten, Title: Impact of urbanization on groundwater recharge rates in Dübendorf, Switzerland Andrea Popp, M.Sc. at Eawag, with Prof. Mario Schirmer, Title: 2016 Characterization of Spatial and Temporal Artificial Recharge: Field Testing and Numerical Modeling Konan Lambert, M.Sc. at University of Neuchâtel, 2014, with Prof. Daniel 2014 Hunkeler, Title: Etude des fluctuations piezometriques et du temps des transit des solutes la surface d'infiltration de la plaine de Wohlenschwil au capatage Frohburg (Co-) supervised PhD Students Jessica Meeks, University of Neuchâtel, Mentoring, Main Supervisor: Prof. 2019 Daniel Hunkeler and Prof. Philip Brunner, Title: Groundwater recharge dynamics by snowmelt 2017 – until 06.2021 Nicole Burri, Eawag, with Prof. Mario Schirmer, Title: Thesis: Water Distribution: Adaptive monitoring and distributed modelling at catchment scale field methods Robin Weatherl, Eawag, with Prof. Mario Schirmer , Title: Urban 2017 - 2021hydrogeology: adaptive field sampling and monitoring strategies for the Fehraltorf catchment (Switzerland) Matura (High-school) mentoring Yasin Barman, Canton school St. Gallen, Swiss water partnership 2020-2021

Switzerland, Title: Effects of climate change on groundwater resources: How

does spring discharge react to climate change?

Skills

ESRI ArcGIS, HydroGeoSphere (HGS), Feflow, Visual Modflow, Freewat, Software

> Hydrus, HBV, WASIM-ETH, Lumprem, PEST, AQTESOLV, Phreqcc, Heatflow and Smoker (in-house codes; University of Laval), Adobe

Illustrator, Microsoft Office suite

Programming R, Matlab, Fortran, Phyton

Field work Sampling of Volatile organic compounds (VOCs), Stable water isotopes, Lab

> and field-based noble gas measurements, Pumping tests, Slug-Tests (Single and Multilevel Cross-Well Slug tests), Hydraulic tomography, Geoprobe

sampling and installation of piezometers, geophysical measurements

Language skills Fluent in German, English and French

Organization skills organizing field work, planning field constructions and experiments, project

management, teaching course preparation, large-scale sampling campaigns

Scholarships/Awards

2023	Grundwasser: Editor's Choice 2022 - Eine Echtzeit-Online-Methode zur Beurteilung der künstlichen Grundwasseranreicherung und Grundwasserentnahme
2018	Best master thesis of supervised student Morgane Minning Swiss Society for Hydrogeology (SGH), Zurich, Switzerland, Title: Impact of urbanization on Groundwater recharge: The case study of Dübendorf, Switzerland
2016	Best research innovation Swiss Society for Hydrology and Limnology Prize, SwissGeoScience Meeting, Geneva, Switzerland, Title: The effects of model complexity and calibration period on groundwater recharge predictions
2010	Best poster award SwissGeoScience Meeting, Fribourg, Switzerland, Title: Groundwater shortage due to climate change

Continuous Education

2019	Project management course
	Nagra, Wettingen Switzerland
2017	Freewat groundwater modelling course
	Eawag, Dübendorf, Switzerland
2016	Feflow: Introduction and advanced topics course
	DHI-WASY GmbH, Berlin, Germany
2012	Estimating Rates of Groundwater, Recharge Workshop
	IAH, Niagra Falls, Canada
2011	Model calibration and Quantification of Predictive Uncertainty using PEST
	University of Neuchâtel, Neuchâtel, Switzerland

Miscellaneous

CURRICULUM VITAE – DR. CHRISTIAN MOECK

Membership FH-DGG (Fachsektion Hydrogeologie in der Deutschen Gesellschaft für

Geowissenschaften), SGH (Schweizerische Gesellschaft für Hydrogeologie), IAH (The international association of hydrogeologists), EGU Membership,

ETH4Devleopment (ETH for Development)

Editor Since 2018 Associated Editor for journal Grundwasser (Springer)

Since 2020 Topic Editor for journal Water (MDPI)

Reviewer board for journal Sustainability (MDPI). Members of the board are selected from all Sustainability reviewers for regularly providing timely high

quality reports on submitted manuscripts.

Other activities Gast Editor for Two Special Issue in Journal "Grundwasser" (Springer).

Review activities Water Resource Research, Journal of Hydrology, Hydrogeology Journal,

Open Geoscience, Environmental Earth Science, Water, Remote Sensing, Hydrology, Vadose Zone Journal, Science of the Total Environment, Environmental Science and Technology, Journal of Contaminant Hydrology, Hungary, Journal of Environmental Management, Sustainability Hydrological earth system science (HESS), Journal of Hydrometeorology,

National Research Development and Innovation Office (NRDI)

Publication list - Christian Möck

Google scholar - profile