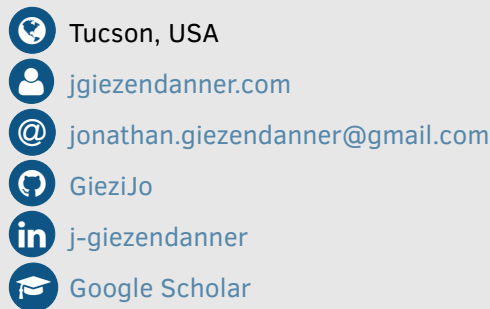


Jonathan Giezendanner

Dr. Ing. Env. EPFL



Languages

French: Native language
German: Second native language
English: Fluent
Italian: Basic knowledge

Skills

Machine Learning, Mathematical Modeling, Data Analysis and Sciences, Programming, Optimisation, Calibration

Computer Skills

Languages: Python, R, C#, Java, SQL
WebDev: HTML, CSS, JS
DevOps: Docker, HPC
GIS: QGIS, Google Earth Engine, PostGIS (PostgreSQL)
Others: GIT, Unity3D, Latex, Linux, Windows

Soft Skills

Working in different environments has given me the ability to adapt quickly to new situations, become a good team-player, understand project management and develop strong skills in communication with partners and colleagues. Additionally I'm a fast thinker, rapidly able to connect the dots, always curious about new things, driven. Humour is very important to me and often works well with other people.

Interests

Cycling, ski-touring, mountaineering, cooking, gaming, game development, board games, music, films, books, concerts, coffee, beers

Experience

- Since 2021 Postdoctoral Researcher University of Arizona (UA), Tucson, USA
At the [Social Pixel Lab](#) led by Prof. E. Tellman Sullivan, Involved in multiple projects regarding flood monitoring and mapping using remote sensing and machine learning
- Since 2020 Co-founder and developer [Early Coffee Games](#)
Swiss indie games studio focused on developing [Hermit - an underwater tale](#), granted with a Pro Helvetia pre-production grant (2020), Game Developers Conference 2022 Delegation Selection, and Pro Helvetia production grant (2022).
- 2021 Research Scientist University of Bern (U^b), Bern, Switzerland
Short term work for modeling of an urban watershed situated in the North of Berlin.
- 2020 Postdoctoral Researcher Swiss Federal Institute of Technology (EPFL), ECHO, Lausanne
At the [Laboratory of Ecohydrology \(ECHO\)](#), led by Prof. A. Rinaldo
- 2016-19 Ph.D. in Civil and Environmental Engineering EPFL, ECHO
[Specialised in theoretical ecology, with a focus on metapopulation dynamics of mountain species.](#)
Teaching duties: main teaching assistant for water resources engineering, teaching assistant in probability and statistics
- 2014-20 Co-founder and developer [Sharped Stone Studios](#)
Swiss independent game creation collective, involved in multiple projects, game jams and games integrated in modern art exhibitions.
- 2015 Computer vision scientist Insel, Bern
Involved in the development of a tool for automated tumor detection using spectral imaging and machine learning, at the Support Center for Advanced Neuroimaging (SCAN)
- 2012-15 Teaching assistant EPFL
Classes: signals, instruments and systems, numerical analysis, geomatics, analysis II
- 2013 Engineering intern Emch+Berger, Bern
Internship at the engineering office Emch+Berger, in the environmental section. Involved in projects regarding water flow management in urban environment
- 2011 Research assistant SHL, Bern
Assistance in the development of BioChar, at the Swiss Applied University for Agriculture (SHL)"
- 2009 Caregiver intern Regional hospital, Moutier
Internship as caregiver at the regional hospital of Moutier
- 2008-09 Military service Swiss armed forces, Airolo
Military service as medic, graduated with the rank of sergeant (group leader)

Education

- 2013-15 Msc Environmental Sciences and Engineering EPFL
Minor in Computational Sciences and Engineering
[Master thesis: rainfall forecasting in Burkina Faso using Bayesian-Wavelet Neural Networks](#)
- 2009-13 Bsc Environmental Sciences and Engineering EPFL
- 2005-08 Bilingual high school (D/F) Alpenstrassen Gymnasium Biel
Specializing in Economics and Law

Extracurricular activities

- 2014-17 Organisation of the Balélec Festival (15'000 People) on EPFL campus: chief financial officer (2016), internal catering manager (2015), electricity- and water-supply manager (2014)
- 2013-15 Class representative at EPFL, defending the interests of the students in discussion with the school
- 2012-14 Founder and vice-president of the association TREE, meant to favor interactions between students in environmental engineering