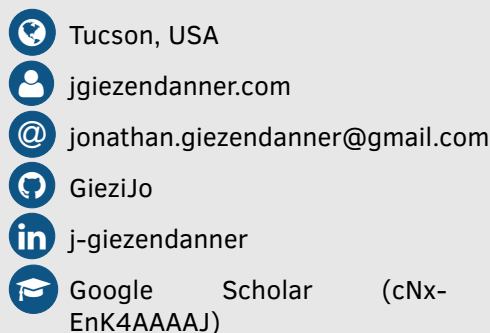


Jonathan Giezendanner

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 at the University of Arizona (UA) 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 at Early Coffee Games Swiss indie games studio focused on developing <i>Hermit - an underwater tale</i> , granted with a Pro Helvetia pre-production grant and Game Developers Conference 2022 Delegation Selection.
2021	Research Scientist at the University of Bern U ^b , Bern Short term work for modeling of an urban watershed situated in the North of Berlin.
2020	Postdoctoral researcher at the Swiss Federal Institute of Technology (EPFL) EPFL, ECHO, Lausanne At the Laboratory of Ecohydrology ECHO, led by Prof. A. Rinaldo
2014-20	Co-founder and developer at Sharped Stone Studios Swiss independent game creation collective, involved in multiple projects, game jams and games integrated in modern art exhibitions.
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
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 |