

YANNIK BEHR

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🐙 github.com/yannikbehr

EXPERIENCE

Science Operations Specialist

GNS Science

📅 August 2016 – Ongoing

📍 Taupo, New Zealand

Development and implementation of geohazard monitoring algorithms using physics-based models, machine learning, and statistical modelling.

Postdoctoral Fellow

ETH Zurich

📅 March 2012 – May 2016

📍 Zurich, Switzerland

Implementation, performance analysis, and uncertainty quantification of Earthquake Early Warning systems in Europe and California.

Postdoctoral Fellow

Victoria University of Wellington

📅 October 2010 – June 2011

📍 Wellington, New Zealand

Establishing the relation between ambient noise source distributions and ocean wave characteristics in New Zealand.

PROJECTS AND PUBLICATIONS

Contributed several modules to a popular [ObsPy](#) Python library for seismology.

Implemented Earthquake Early Warning modules in SeisComP3, a software for realtime seismology. [The Virtual Seismologist](#)

15 publications in peer-reviewed journals; 4 peer-reviewed reports [ORCID](#)

15 manuscript reviews; 1 PhD examination [publons](#)

PROFESSIONAL SERVICES AND TEACHING

Convener

AGU General Assembly

📅 December 2013

Advances and challenges for Earthquake Early Warning Systems

Lecturer

ETH Zurich

📅 2014 – 2015

Timeseries Analysis for Environmental Physics and Geophysics

Organizer

ETH Zurich

📅 2014

Introductory workshop on [ObsPy](#), a Python toolbox for Seismology

COMPUTING SKILLS

• Development

Python

C++

Bash

Git

• Geophysics

ObsPy

Geopsy

SeisComP

• Machine Learning/Statistics

Pandas

Scikit-learn

Tensorflow

Pymc3

GeNIe/SMILE

• Development Tools – DB

PostgreSQL

SQLite

MySQL

• DevOps

Docker

Travis CI

Gitlab CI

• Systems

Linux/Unix

Microsoft Windows

EDUCATION

PhD in Geophysics

Victoria University of Wellington, New Zealand

📅 April 2007 – May 2011

Thesis title: Imaging New Zealand's crustal structure using ambient seismic noise recordings from permanent and temporary instruments.

Diploma in Geophysics

Ludwigs-Maximilians University, Munich, Germany

📅 October 2000 – March 2007

Thesis title: Determining the Green's function between stations of the Bavarian seismic network employing the correlation of diffuse wavefields.

LANGUAGES

German

English

French

