



Potsdam, Germany

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## Programming



Python R Matlab

Mathematica Latex

Html/CSS/JS ArcGIS

BASH QGIS Git/GitHub

GMT

## Languages

German ★★★★★

English ★★★★★

Italian ★★★★★

French ★★★★★

## Expertise

seismic hazard analysis

IoT ground motion

machine learning

bayesian inference

## Interests



# Silvio Schwarz

Geophysicist (B.Sc.)

## Education

10/2011 - 10/2019  
(5 months)

Master of Science<sup>1</sup>

Universität Potsdam

Earth Sciences

Focus: Geophysics, machine learning

Thesis:

1) Forecasting Macroseismic Intensities: A Sensitivity Study of a Bayesian Approach<sup>1</sup> 2014-2016

2) Classification of eruptive tremor sources during the 2014-2015 Holuhraun sequence, Iceland<sup>1</sup> 2019

<sup>1</sup> cancelled due to illness

10/2008 - 09/2011  
(5 months)

Bachelor of Science

Universität Potsdam

Earth Sciences

Geology, Math, Physics, Chemistry

Thesis:

Simulation von Bodenbewegungsszenarien von Starkbeben (German)

08/2000 - 05/2008  
(5 months)

Abitur

Klosterschule Roßleben (staatl. Gymnasium)

Math, Geography

Thesis:

Naturkatastrophen und ihr Einfluss auf das Leben in der Gegenwart (German)

## Experience

05/2019 - 10/2019  
(6 months)

Student Researcher

U Potsdam

General Geophysics Group

Characterizing tremor sources during the Holuhraun eruption, Iceland

Supervision: Prof. Dr. Eva Eibl

08/2014 - 06/2015  
(11 months)

Student Trainee

Assecor GmbH, Berlin, Ger

Documentation of the power grid of Berlin, Germany for Vattenfall Europe Sales GmbH

11/2013 - 03/2014  
(5 months)

Student Trainee

Assecor GmbH, Berlin, Ger

Migration of the IT Infrastructure for BIOTRONIK SE & Co. KG

09/2012 - 11/2012  
(3 months)

Master Internship

Wolfram|Alpha, Illinois, USA

Development of geophysical content for Wolfram | Alpha

Supervision: Dr. Björn Zimmermann & Dr. Michael Trott

06/2011 - 08/2012  
(1 year 3 months)

Student Researcher

U Potsdam

SSHAC LEVEL 3 PSHA model building and consulting

1 week consulting for Prof. Julian J. Bommer, Imperial College London

Supervision: Prof. Frank Scherbaum

03/2011 - 04/2011  
(1 month)

Bachelor Internship

U Leipzig

Maintenance of the seismological Network of Saxony

Supervision: Dipl. Geophys. S. Funke

## Projects

### EQDist

Calculation and interactive visualization of source-to-site distances for ground motion modelling

### TerrorXAfrica

interactive visualization of armed conflicts across Africa created during the 22h hackathon HackHPI2019 for the IBM cross-border effects challenge