

# Johannes Thun, Dipl.-Geophys., PhD

## Geophysicist & Data Scientist

I am a highly motivated geophysicist with a wide range of skills and interests. After graduating in Karlsruhe, Germany, I started my career in Barcelona, subsequently completed a PhD in Earth Sciences in Dublin and now live and work in Prague. Through my work, I have gained extensive experience with programming, data analysis, numerical modelling, the technical side of geophysics and public speaking.

### Experience

#### May 2017 – present: **Postdoctoral Researcher**

Geophysical Institute of the Czech Academy of Sciences, Prague, Czech Republic

- Continuation of PhD topics; applications to data recorded on unstable slopes
- Developed code to detect tilt-like disturbances on seismograms

#### Sep 2012 – Jan 2017: **Researcher and PhD Student**

School of Earth Sciences, University College Dublin and Dublin Institute for Advanced Studies, Ireland

- Investigation of near-field effects of volcano seismic sources
- Code development and adaption for time series analysis, seismic waveform inversion and signal classification in Python, Matlab and Fortran
- Numerical seismic waveform inversion using Spectral Element Method (SEM) code EFISPEC3D; secondment at BRGM, France

#### Jan 2012 – Sep 2012: **Researcher**

Institute of Earth Sciences *Jaume Almera*, Barcelona, Spain

- Ambient seismic noise analysis
- Installation and service of seismic stations

#### May 2006 – Dec 2011: **Research Assistant and Course Supervisor**

Various roles at Geophysical Institute and Institute of Thermal Turbomachines, Karlsruhe Institute of Technology, Germany

- Automated data processing and visualisation
- Preparation and supervision of student courses

### Education

#### **University College Dublin** 2012 – 2017

Doctor of Philosophy in Earth Sciences – Thesis: “Constraining volcano seismic sources using near-field observations”

#### **Karlsruhe Institute of Technology** 2005 – 2011

Diplom degree in Geophysics – Thesis: “Investigation of the influence of wind on broadband seismological data”



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### Skills

Data analysis  
Numerical modelling  
Programming  
Python / Matlab / Fortran / Shell / C++  
Machine Learning  
Data visualisation  
Microsoft Office  
Unix / macOS / Windows  
Class B driving license

### Languages

German

English

Spanish

French

Czech

Italian

### Other interests

Kayaking  
Guitar & Banjo  
DIY electronics