

Boris Rösler

Education:

2016 - currently:

Graduate student at Northwestern University, PhD in Earth and Planetary Sciences

- Study of Source Processes of Earthquakes and Surface-Wave Amplitude Anomalies
- Advisor: Suzan van der Lee

2012 - 2016:

Undergraduate student at the University of Colima, Bachelor of Physics

- Grade Average: 9.59/10
- Senior Thesis: About the Detection of Stealth scalar fields

- Graduation with Honors
- Outstanding Academic Achievement Award
- Peña Colorada Award for the best student of the graduating class
- Scholarship of Excellence (1st - 8th semester) for the best student in each semester
- First foreign student to successfully complete a bachelor degree at the Faculty of Science

1996 - 2001:

Geophysics student at the University of Munich (Germany)

- Intermediate exam grade 1.47 (range from 1.0 to 6.0)
- Exams in Mathematics (1.3, range from 1.0 to 6.0), Experimental Physics (1.3), Theoretical Physics (1.3) and Chemistry, (2.0, oral exams)
- Lectures in Geophysics, Geology and Mineralogy, Physics, Chemistry and Meteorology
- Field Trips in Geophysics and Geology, among them Geological Mapping
- Practical Trainings in Geophysics, Meteorology, Chemistry and Physics

- Research projects: Correlation of the dominant frequency of volcanic tremor to geologic processes inside a volcano at the Volcano Observatory of the University of Colima, Seismic phenomena associated with volcanic activity in the working group of the European Seismological Commission
- Participation in the „Field methods in Volcanology“ course of the University of Hawaii at Hilo

Publications:

- High order eigenvalues for the Helmholtz equation in complicated non-tensor domains through Richardson Extrapolation of second order finite differences (with Paolo Amore, John Boyd and Francisco Fernandez), submitted to Journal of Computational Physics on September 07, 2015 (JCOMP-D-15-01198)
- Detection of stealth scalar fields non-minimally coupled to gravity (work in progress)

Scholarships:

2012 - 2015:

- "Beca de Excelencia", Scholarship of the University of Colima for the best student in all eight semesters

2016 - 2017:

- Fellowship of The Graduate School at Northwestern University

2017 - 2018:

- IDEAS Fellowship of Northwestern University

2018 - 2019:

- IDEAS Fellowship of Northwestern University

Conferences:

2000:

- Annual Meeting of the European Seismological Commission (São Miguel Island, Portugal)

2012:

- Cities on Volcanoes (Colima, Mexico)

2017:

- IRIS USArray Advanced Short Course (Bloomington, Indiana, USA)
- CIG Computational Seismology Workshop (Livermore, California, USA)

Internships:

1999:

- Seismic Reflection and Refraction (TRANSALP Project)

2000:

- Volcano Observatory of the University of Colima

2018:

- IRIS Data Management Center

Work Experience:

2008 - 2012:

Partner and Chief Executive Officer at East Pacific Mining Company S.A. de C.V. in Colima (Mexico)

- Evaluation of more than 250 different mining concessions in 12 different states of Mexico: geological, geophysical and mineralogical investigation of mineral deposits (geologic field studies, geomagnetic, geoelectric and seismic measurements, chemical analyses)
- Exploitation of four different mines in the states of Colima and Jalisco

2000 - 2007:

Partner and Chief Executive Officer at Electric Nation GBR in Berlin (Germany), an independent music production company