Julian **Kühnert**

ENVIRONMENTAL SEISMOLOGIST · DATA SCIENTIST

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Education

Institut de Physique du Globe de Paris (IPGP)   *Paris, France*

PH.D. IN GEOPHYSICS (*expected date of graduation: 2019-11-27*)   *Oct. 2016 - present*

- Research project: *Simulation of Seismic Waves generated by Rockfalls on Real Topography*

TU Delft | ETH Zurich | RWTH Aachen   *Delft, Netherlands - Zurich,*
                                                              Switzerland - Aachen, Germany

M.SC. IN GEOPHYSICS (*cum laude*)   *Sept. 2014 - Aug. 2016*

- IDEA League Joint Master's in Applied Geophysics
- Dissertation prepared at Schlumerger in Gatwick, UK

University of Konstanz   *Konstanz, Germany*

B.SC. IN PHYSICS   *Oct. 2010 - Jul. 2014*

- Comprising a one year study abroad at Uppsala University (2012-2013)
- Dissertation prepared at ISTerre in Grenoble, France

Research & work experience

Schlumberger   *Gatwick, UK*

M.SC. DISSERTATION   *Mar. 2016 - Aug. 2016*

- Topic: *Joint inversion of shear-wave velocity azimuthal anisotropy from surface and body waves*
- Advisors: Daniele Boiero, Claudio Boiero and Edgar Manukyan

UNIL Lausanne   *Lausanne, Switzerland*

INTERNSHIP   *Aug. 2015 - Sept. 2015*

- Topic: *Numerical upscaling of seismic characteristics in fractured porous media*
- Advisors: Eva Caspari and Klaus Holliger

ISTerre Grenoble   *Grenoble, France*

B.SC. DISSERTATION   *Mar. 2014 - Jul. 2014*

- Topic: *Ultrafast ultrasonic imaging of elastic properties in soft solids: Application of speckle-interferometry to quasistatic deformation*
- Advisors: Philippe Roux and Michel Campillo

Uppsala University   *Uppsala, Sweden*

RESEARCH PROJECT   *Sept. 2012 - Jun. 2013*

- Topic: *Commissioning of a collimated VUV Fourier transform spectrometer for inelastic resonance measurements*
- Advisor: Marcus Agåker

Carl Zeiss AG - Microscopy   *Aalen-Oberkochen, Germany*

STUDENT TRAINEE   *Aug. 2010; Mar. 2011*

- Quality management in the department of Electron Microscopy (SEM and TEM microscopes)

Teaching

2019	**Stresses and Elasticity**, IPGP - M.Sc. level (*in French*)	*France*
2016	**Experimental Physics III**, RWTH Aachen - B.Sc. level (*in German*)	*Germany*
2015	**Physics I**, ETH Zurich - B.Sc. level (*in German*)	*Switzerland*

Skills

Programming	Python, Matlab, Mathematica, FORTRAN, Java, LaTeX
Tools	Jekyll, Hugo, ArcGIS, QGIS
Visualization	TikZ, Matplotlib, HoloViews
Languages	German, English, French, Spanish, Swedish

Grants, Workshops & Conferences

GRANTS

2018	**COST travel grant**, 4th TIDES Advanced Training School	*Prague, Czech Rep.*
2018	**COST travel grant**, 8th Munich Earth Skience School	*Sudelfeld, Germany*
2014-2016	**Deutschlandstipendium**, Scholarship for M.Sc. study from the German talent program	*Germany*

WORKSHOPS

2018	**4th TIDES Advanced Training School**, Applications in natural and industrial environments	*Prague, Czech Rep.*
2018	**8th Munich Earth Skience School**, Rotational Seismology	*Sudelfeld, Germany*
2017	**1st EGU Galileo Conference**, From process to signal – advancing environmental seismology	*Ohlstadt, Germany*

CONFERENCES (TALKS)

2019	**Congrès Des Doctorants**, *Topography induced amplification of high frequency seismic waves generated by landslides: from simulation to observation at Piton de la Fournaise volcano, La Réunion*	*Paris, France*
2018	**AGU Fall Meeting**, *High frequency seismic signal generated by landslides on complex topographies: from numerical simulation to field observation at Dolomieu crater, La Réunion*	*Washington DC, USA*
2018	**Congrès Des Doctorants**, *High frequency seismic signal generated by landslides on complex topographies: from point source to spatially distributed sources*	*Paris, France*

Extracurricular Activity

Organizing role during the *Festival des Idées* in Paris *Paris, France*

ART EXHIBITION AT IPGP *2017*

- Organization of an exhibition entitled: *A love for risk - how far is too far?*
- The exhibition contained artworks of researchers expressing the risks and dangers related to their scientific work.

Instructor Ski-Alpin *Germany & Austria*

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- Teaching of individuals and groups
- Organization of day trips and youth camps