

David Bekaert

Resume

Personal

Name: David Bekaert
E-mail: David.Bekaert[at]jpl.nasa.gov
Nationality: Belgian

Key attributes

- Effective team player with proven track record in multi-disciplinary settings.
- Strong communicator, both orally and in writing.
- Passionate about my work and driven to achieve results in a timely manner.
- Results oriented with strong publication record and conference participation.
- Cultural sensitivity with work experience in multi-cultural environments.
- Ability to adapt to emerging problems and open to different insight.

Current

Radars Scientist at the Radar Science and Engineering section of the Jet Propulsion Laboratory

Education

University of Leeds, United Kingdom Sep 2012 - Dec 2015

- Doctor of Philosophy: Geophysics and Geodesy
PhD Thesis: Interferometric Synthetic Aperture Radar for slow slip applications

Stanford University, United States of America Jan 2015 - Feb 2015

- Visiting student researcher School of Earth Sciences with Paul Segall. Development of a Network Inversion Filter combining GNSS and InSAR.

International Space University, France Jun 2013 - Aug 2013

- Participant at the 2013 Space Studies Program.

Delft University of Technology, Netherlands Sep 2008 - May 2011

- Master of Science: Earth and Planetary Observation, **with distinction**.
Thesis: InSAR time series analysis of the 2006 slow slip event on the Guerrero Subduction Zone, Mexico.
- Honors Track: Remote Sensing

Delft University of Technology, Netherlands Sep 2005 - Aug 2008

- Bachelor of Science: Aerospace Engineering, **with distinction**.

Working experience

Caltech Postdoc at Jet Propulsion Laboratory Oct 2015 - Oct 2016

- Space and airborne InSAR to study subsidence in New Orleans and Sacramento Delta. Investigating impact of tropospheric noise on UAVSAR InSAR applications.

YGT at the European Space Agency (ESTEC) May 2011 - July 2012

- Young Graduate Trainee at the Microwave Instruments section of the Earth Observation division (EOP-PIM). Developing and implementing a clutter suppression algorithm for ESA's P-band Ice sounder radar (POLARIS).

Intern at the European Space Agency (ESTEC) Jan - April 2011

- Stagiaire at the Wave Interaction and Propagation section (TEC-EEP). Use of microwave models to analyze the impact of snow grain size on the backscatter for Ku and X band radars.

Jet Propulsion Laboratory Visiting Student Researcher Jan - May 2010

- JPL affiliate at the Radar Science and Engineering Section. Investigating the usage of time series InSAR for extracting slow slip events in Guerrero, Mexico. Collaborating in JPL radar projects.

Teaching assistant

- Inverse Theories (University of Leeds) 2013, 2014
- Tectonophysics (University of Leeds) 2012, 2013
- Geological Field and Map skills (University of Leeds) 2012
- Multivariate Data Analysis (Delft University of Technology) 2009

Languages

Dutch, mother tongue

English, speak, read and write

French, intermediate

Technical skills and competences

Programming skills

- Matlab
- Python
- Bash, Cshell
- GMT

Program experience

- Office: Word, Excel, PowerPoint and Outlook
- Latex
- IDL
- Photoshop, Illustrator, Adobe

Operating systems

- Windows
- Mac OS
- Linux

References

JPL

Dr. Eric Fielding
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University of Leeds

Prof.dr. Tim Wright
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European Space Agency

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Delft University of Technology

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