

# roderikkoenders

data scientist

## contact

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## languages

bilingual dutch/english  
italian

## programming

Python  
Java, Mathematica  
QGis  
SQL  
CCS & HTML

## hobbies

photography  
travel  
(water) sports  
table-top gaming

## about

I am looking for a work environment that provides challenges in the form of dedicated problems. An environment where I can apply myself individually, and as an integral part of a team. And an environment that gives me the space to develop my own ideas and search for synergies with other aspects of the business.

**Keywords:** *data mining, remote sensing, image processing, planetary science, passionate, always looking for new challenges, cross-domain applications, motivator, team player*

## education

- since 2009 **Ph.D. candidate in Remote Sensing** Delft University of Technology  
*A multiscale approach for extracting channels from digital elevation methods.*
- 2005-2009 **M.Sc. summa cum laude** Delft University of Technology  
Majoring in Aerospace Engineering  
Optimization of Landing-Site Selection for ExoMars.
- 2002-2005 **B.Sc.** Delft University of Technology  
Majoring in Aerospace Engineering

## experience

- since 2009 **Researcher** Delft University of Technology  
Skills: image processing, data analysis, fieldwork, geology, grant and article writing, teaching, supervision, determination  
Role: Research as part of my doctoral thesis. I have worked on several research projects with tight deadlines. I have applied for my own funding streams. Educational activities with B.Sc. and M.Sc. students. Cross-domain collaboration with geologists. Geological fieldwork in Morocco, France.
- 2012-2013 **Co-founder** Ortsa Prime  
Skills: business, finance, managing a group  
Role: Business initiation phase for a software start-up.
- 2009-2011 **Researcher, developer** Utrecht University  
Skills: building a web platform, organization of a large event  
Role: Contract for EuroPlanet to create a website to foster the international planetary society, PlanetaryGIS.org. Organization of the International Workshop on Landing Site Selection in Leiden.
- 2007-2009 **Software Developer** S[&]T  
Skills: programming, software engineering, working with a deadline  
Role: Developer for the MECA project. Development of various systems at NATO, subcontracted from S&T. Design and development of the hour administration tool of S&T in Django. Design and development of the S&T website.
- 2007-2008 **Research Internship** ESA/ESTEC  
Skills: research, networking, working in an international environment  
Role: Optimizing landing-site selection for ExoMars: Developing a decision support system for landing-site selection.
- 2004 **Data analyst** Regional Amsterdam Police Force (RPAA)  
Skills: office work, data analysis  
Role: Analyzing data to provide management with up-to-date statistical information.

2004–2007 **Sports Instructor**

Kanoschool.nl

Skills: event organization, managing large groups, safety

Role: Waveski and Raft instructor for large groups along the Dutch coastline.

## achievements

- 2009 **Best Graduate Award** Delft University of Technology  
Awarded best graduate of the year 2009 for the faculty of Aerospace Engineering.
- 2006, 2008 **Team Leader** Dutch National Kayak Team  
Team leader for European Championships Under 23 Kayaking in Athens, Greece and Szeged, Hungary.
- 2008 **PlanetaryGIS.org** PlanetaryGIS.org  
Community based website to collaborate on planetary science by planetary scientists.
- 2004 **Championships** Kayaking Championships  
Finished tenth place on K1 200 meters in European Championships Kayaking. Semi-final on K2 500 and 1000 meters in European Championships Under 23 Kayaking.  
Dutch National Champion Kayaking on K1 200 meters, and K2 200, 500, and 1000 meters.

## publications

### international peer-reviewed conferences/proceedings

Assessing the Value of Analog "Mission" Data Sets Beyond the Testing Timeline

J. A. Skinner, R. Koenders, T. M. Hare

*LPI Contributions*, 2013

Monitoring a river channel network at Salar de Uyuni using Landsat ETM+ images

S.E. Hosseini Aria, M.E. Donselaar, R. Lindenbergh, R. Koenders, J. Li, A. Oyen

*ISPRS Conference 2012*, 2012

The Altiplano Basin (Bolivia): A Terrestrial Mars Analogue

R Koenders, R.C. Lindenbergh, M.E. Donselaar

*3rd Terrestrial Mars Analogue Conference*, 2012, Marrakech, Morocco

Application of synthetic aperture radar methods for morphological analysis of the Salar De Uyuni distal fluvial system

A.M. Oyen, R. Koenders, S.E.H. Aria, R.C. Lindenbergh, J. Li, M.E. Donselaar

*Geoscience and Remote Sensing Symposium (IGARSS), 2012 IEEE International*, 2012

Sand sheet connectivity in a low net-to-gross setting: Remote sensing-based modeling of a river channel network in a terminal fluvial system

M.E. Donselaar, J. Li, S.E. Hosseini Aria, R. Koenders, R.C. Lindenbergh, A.M. Oyen

*AAPG Annual Conference and Exhibition*, 2012, Tulsa

Robust extraction of channel parameters from HRSC data of Warrego Valles

R. Koenders, R. C. Lindenbergh

*EPSC-DPS Joint Meeting 2011, held 2-7 October 2011 in Nantes, France. <http://meetings.copernicus.org/epsc-dps2011>*, p. 1325, 2011

PlanetaryGIS: a distributed system for landing-site characterization and selection for space exploration missions

T. E. Zegers, R. Koenders

*European Planetary Science Congress 2010*, 2010

Automated Classification of Martian Morphology Using a Terrain Fingerprinting Method

R. Koenders, R. C. Lindenbergh, T. E. Zegers

*Geomorphometry Conference*, 2009, Zurich, Switzerland