

# roderikkoenders

data scientist

## about

Soestdijksekade 1124  
2574 EP 's Gravenhage  
The Netherlands

roderikk@gmail.com  
<http://roderikk.nl>

## languages

bilingual dutch/english  
italian notions

## programming

♥ Python  
Java, Mathematica  
CCS & HTML

## interests

data mining, remote sensing, planetary science, photography, post-processing, table-top gaming

## education

- |            |   |                                |
|------------|---|--------------------------------|
| since 2009 | Ph.D. candidate in Remote Sensing<br><i>The search for channels on Mars.</i>                          | Delft University of Technology |
| 2005-2009  | M.Sc. <i>summa cum laude</i><br>Majoring in Aerospace Engineering<br>Specialization in Remote Sensing | Delft University of Technology |
| 2002-2005  | B.Sc.<br>Majoring in Aerospace Engineering  | Delft University of Technology |

## experience

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|---------------|--|----------------------|
| since 10/'09  | Delft University of Technology   | Researcher.          |
|               | <i>Various research contracts, educational activities with B.Sc. and M.Sc. students.</i>   |                      |
| 09/'12-04/'13 | Ortsa Prime  | Co-founder.          |
|               | <i>Business initiation phase for a small software start-up.</i>  |                      |
| 04/'08-09/'09 | S&T  | Developer.           |
|               | <i>Development of various systems at NATO, subcontracted from S&amp;T.</i><br><i>Design and development of the hour administration tool of S&amp;T in Django.</i><br><i>Design and development of the S&amp;T website.</i> |                      |
| 06/'07-04/'08 | ESA/ESTEC  | Research Internship. |
|               | <i>Optimizing landing-site selection for ExoMars: Developing a decision support system for landing-site selection.</i>   |                      |
| 01-07 2007    | S&T  | Internship.          |
|               | <i>Developer for the MECA project.</i>   |                      |
| 05-07 2004    | Regional Amsterdam Police Force (RPAA)   | Data analyst.        |
|               | <i>Analysing data to provide management with up-to-date statistical information.</i>   |                      |
| 2004-2007     | Kanoschool.nl  | Instructor.          |
|               | <i>Waveski and Raft instructor for large groups along the Dutch coastline.</i>   |                      |
| 05-10 2001    | Regional Amsterdam Police Force (RPAA)   | Developer.           |
|               | <i>Development and design of an online Crisis Manual for the department of Crisis Management.</i>  |                      |

## 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  
, 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  
, 2012

## The Altitplano 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

## other publications

### Where to Land on Mars?

R Koenders, R.C. Lindenbergh, T.E. Zegers  
2009

## miscellaneous

2009	<b>Best Graduate Award</b> Awarded best graduate of the year 2009 for the faculty of Aerospace Engineering.	Delft University of Technology
2006, 2008	<b>Team Leader</b> Team leader for European Championships Under 23 Kayaking in Athens, Greece and Szegeg, Hungary.	Dutch National Kayak Team
2008	<b>PlanetaryGIS.org</b> Community based website to collaborate on planetary science by planetary scientists.	PlanetaryGIS.org
2007	<b>Mission Execution Crew Assistant</b> Researching what is required from an interface point of view when humans go to Mars.	MECA
2004	<b>Championships</b> 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.	Kayaking Championships