roderik**koenders**
data scientist

about

Soestdijksekade 1124
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The Netherlands

roderikk@gmail.com
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languages
bilingual dutch/english
italian

programming
Python
Java, Mathematica
QGis
SQL
CCS & HTML

keywords

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

education

since 2009	**Ph.D.** candidate in Remote Sensing *Categorization of channel networks on Mars.*	Delft University of Technology
2005-2009	**M.Sc. summa cum laude** Majoring in Aerospace Engineering *Optimization of Landing-Site Selection for ExoMars.*	Delft University of Technology
2002–2005	**B.Sc.** Majoring in Aeropsace Engeneering	Delft University of Technology

experience

since 10/'09	**Delft University of Technology** *Research as part of Ph.D.* *Various research contracts.* *Educational activities with B.Sc. and M.Sc. students.* *Geological fieldwork in Morocco, France.*	Researcher.
09/'12–04/'13	**Ortsa Prime** *Business initiation phase for a small software start-up.*	Co-founder.
10/'09–01/'11	**Utrecht University** *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.*	Researcher.
04/'08–09/'09	**S&T** *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.*	Developer.
06/'07–04/'08	**ESA/ESTEC** *Optimizing landing-site selection for ExoMars: Developing a decision support system for landing-site selection.*	Research Internship.
01–07 2007	**S&T** *Developer for the MECA project.*	Internship.
05–07 2004	**Regional Amsterdam Police Force (RPAA)** *Analysing data to provide management with up-to-date statistical information.*	Data analyst.
2004–2007	**Kanoschool.nl** *Waveski and Raft instructor for large groups along the Dutch coastline.*	Instructor.

| 05–10 2001 | Regional Amsterdam Police Force (RPAA) | Developer. |

Development and design of an online Crisis Manual for the department of Crisis Management.

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 Szegeg, Hungary.

| 2008 | **PlanetaryGIS.org** | PlanetaryGIS.org |

Community based website to collaborate on planetary science by planetary scientists.

| 2007 | **Mission Execution Crew Assistant** | MECA |

Researching what is required from an interface point of view when humans go to Mars.

| 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
, 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 Alitplano 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