



PhD Program between the Freie Universität Berlin (FUB) and the China Scholarship Council (CSC)

Open PhD position for CSC scholarship candidates 2015

Please note: the PhD position is only offered to Chinese PhD candidates for application in the framework of the FUB-CSC Program.

<u>Department/Institute:</u>	Planetary Sciences and Remote Sensing Group, Institute of Geological Science, Department of Earth Sciences
<u>Subject area:</u>	Planetary Sciences and Remote Sensing, Geographic Information Sciences
<u>Professor / Research Group:</u>	Stephan van Gasselt, Prof.
<u>Number of open positions:</u>	1
<u>Project title:</u>	Systematic assessment of seasonal changes in global visible and hyperspectral data from Mars orbiting platforms

Project description:

With more than 40 years of imaging the surface of Mars at geometric resolutions between 0.3 – 3000 m/px multiple data coverage in the visible wavelength range of most areas has been achieved. Such a data basis would allow for detailed and systematic studies to detect changes of (water-related) landforms and to assess their specific indicator role in the context of Mars' climate transition. The recent addition of hyperspectral instruments would provide further details on surface composition and help to evaluate observations in a quantitative way. In order to face such a challenge, conceptualization and development of sophisticated spatial tools and methods for efficient information extraction and assessment are needed.

Language requirements:

The thesis can be written in English or in German. Knowledge of the German language is always helpful but not required to conduct the thesis. The working group is composed of German, British and US-American researchers and group discussions are in English.

Academic requirements:

A Bachelor's and Master's degree in Geographic Information Sciences and Remote Sensing and/or Geological Sciences or Geographical Sciences are required. A Bachelor's degree does not suffice. Active academic work experience would be helpful.

Link to professor and further information:

<http://www.fu-berlin.de/planets>

Please note:

In a first step the complete application should submit to the Beijing Office for evaluation by January 4th. Please don't contact the professor before. He will get in contact with you after having received the complete application in January.