



UNIVERSITÄT  
HEIDELBERG  
ZUKUNFT  
SEIT 1386



Department of Geography · Chair of GIScience · Berliner Str. 48 · 69120 Heidelberg · Germany

## PhD student position in GIScience

The PhD student in the doctoral program Crowdanalyser ([crowdanalyser.uni-hd.de](http://crowdanalyser.uni-hd.de)) at Heidelberg University will investigate the challenges, possibilities and limitations of **crowdsourcing 3D geoinformation**, e.g. extracted indirectly from OpenStreetMap and captured directly as 3D point clouds by low-cost mobile sensors.

The objective of the graduate school granting the scholarship is to develop novel methods towards the quality-oriented analysis and exploration of crowdsourced Web 2.0 data (such as OpenStreetMap, Flickr, Twitter, Social Networks etc.). Crowdanalyser is a joint Research Training Group between the Institute of Computer Science and the Geoinformatics Research Group ([giscience.uni-hd.de](http://giscience.uni-hd.de)), Department of Geography at Heidelberg University, affiliated with the Interdisciplinary Center for Scientific Computing (IWR). The thesis will be supervised by Bernhard Höfle and Alexander Zipf.

Scholarships are 1200 Euro per month plus 110 Euro per month for travel and other costs. Further criteria and information on the scholarship is given by the Graduate Academy ([www.graduateacademy.uni-heidelberg.de](http://www.graduateacademy.uni-heidelberg.de)) of the Heidelberg University.

### Requirements

- MSc in Computer Science, Geoinformatics, Geography, or related area
- Background in one or more of the following areas: volunteered geographic information (VGI), 3D object detection and modeling, 3D point cloud analysis, multi-sensor geodata fusion, 3D web technology (e.g. services and computer graphics)
- Demonstrated strong programming experience (preferably in C/C++ and Python)
- Excellent English skills (written and oral), Excellent communication & organizational skills

Applications shall be directed to Ms. Bettina Knorr ([bettina.knorr@geog.uni-heidelberg.de](mailto:bettina.knorr@geog.uni-heidelberg.de), [giscience.uni-hd.de](http://giscience.uni-hd.de)) until **30 October 2013** in digital form (one PDF document). The application shall include a detailed CV including grades, technical expertise, two letters of recommendation from former supervisors/professors and list of publications. Furthermore, the application shall include a short motivation statement (one page) addressing the PhD topic "Crowdsourcing of 3D Geoinformation".

The selection of the scholarship holder will be based on quality of the candidates. The Heidelberg University is an equal opportunity employer. In case of equality of qualification and suitability of applicants, the applications made by female researchers will be given preferential consideration. Handicapped applicants will be treated preferentially if equally qualified. The graduate college aims at providing best possibilities for combining research and family.

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