

## PERSONAL INFORMATION

## Matthias Hinz



 Hinter dem Hammer 13, 99734 Nordhausen (Germany)

 (+49) 15229438152

 [contact@matthiashinz.eu](mailto:contact@matthiashinz.eu)

 [matthiashinz.eu](http://matthiashinz.eu)

**Date of birth** 19/08/1988 | **Nationality** German

## WORK EXPERIENCE

01/12/2016–31/03/2017

**Scientific Assistant**

Institute for Geoinformatics, University of Münster, Münster (Germany)

During a temporary employment for the research project 'Opening Reproducible Research', I developed the R extension package 'containerit'. The software enables packaging data analyses with all its resources and dependencies in Docker containers. Such containers are useful, amongst others, for publishing and archiving reproducible research.

01/09/2012–30/06/2013

**Student assistant**

52° North Initiative for Geospatial Open Source Software GmbH, Münster (Germany)

I developed the server back-end WPS4R. Functioning as middleware, WPS4R enables creating web services from R scripts.

Related to this work, I published the paper 'Spatial Statistics on the Geospatial Web' (see below)

01/03/2010–31/08/2012

**Student assistant**

Institute for Geoinformatics, University of Münster, Münster (Germany)

I worked for the geoprocessing working group first and switched to spatio-temporal modeling after the group was dissolved. Primarily, I did back-end programming in Java for Web Processing Services in Geodatainfrastructures. I dedicated my work to the EU-funded research project UncertWeb, which, in return, gave me valuable input to my Bachelor's thesis.

01/04/2010–31/07/2010

**Assistant Tutor**

Institute for Geoinformatics, University of Münster, Münster (Germany)

As a tutor, I assisted the preparation of the seminar 'Geosoftware I' and the weekly course exercises consisting of small programming tasks in Java, which were leading up to a software project throughout the class. I reviewed the student's homework and the final course exam.

## EDUCATION AND TRAINING

01/10/2012–27/09/2016

**Master of Science in Geoinformatics**

Institute for Geoinformatics, Münster (Germany)

**Final overall grade:** good (1,7)

Thesis: 'Communicating meaning and purpose of spatio-temporal data analysis', grade: excellent (1,5).

For my thesis, I developed the R extension package 'SpatialSemantics', which captures provenance and semantics of spatio-temporal data analyses.

01/10/2014–31/07/2015

### Studies abroad

Institute of New Imaging Technologies, University Jaume I, Castellón de la Plana, Castellón de la Plana (Spain)

As an exchange student in Spain, I assisted the EC-funded research projects GI-N2K and ERMES. My work consisted client- and server-side development using JavaScript and ArcGIS for Server. I contributed to a geoportal on the web that provides digital maps and agricultural information to the European rice sector.

01/10/2007–30/09/2012

### Bachelor of Science in Geoinformatics

Institute for Geoinformatics, University of Münster, Münster (Germany)

**Final overall grade:** satisfactory (2,8)

Contents: mathematics, informatics, software engineering, databases, project management, computer graphics; physical- and anthropology landscape ecology; digital cartography, geostatistics, GIS and remote sensing

Thesis: 'Concepts towards a provenance-aware Web Processing Service.', grade: good (1,8)

## PERSONAL SKILLS

### Mother tongue(s)

German

### Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
Spanish	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

### Communication skills

Accustomed to multicultural environments due to international research experiences, studies and private life (e.g. traveling). Experienced in team work regarding software projects and research groups.

### Job-related skills

- **Geographic Information Science:** GIS (ArcGIS, QGIS), SDI (OGC webservices), remote sensing, spatio-temporal modeling
- **Programming skills:** Most experienced in Java and R, also C++, C#
- **Web technologies:** HTML, CSS, JavaScript, XML, Linked Data
- **Operating systems:** Linux (Ubuntu) and Windows

## ADDITIONAL INFORMATION

### Memberships

As a member of the European Geography Association (EGEA), I attended various international congresses, student exchanges and workshops held in Germany, Austria, Hungary and Ukraine.

### Publications

Hinz, M., D. Nüst, B. Proß and E. Pebesma (2013). "Spatial Statistics on the Geospatial Web". The 16th AGILE International Conference on Geographic Information Science, Short Papers, Leuven, Belgium.