

# Christoph Matthies

<https://christophmatthi.es>

✉ christoph.matthies[at]hpi.de | ☎ +49 (331) 5509-1329

## EDUCATION

### RESEARCH ASSISTANT / PHD CANDIDATE

Hasso Plattner Institute, Potsdam

Since Jan. 2016

Research on data-driven software development methodologies and process improvement at the chair of Prof. Plattner.

### M.Sc. IT-SYSTEMS ENGINEERING

Hasso Plattner Institute, Potsdam

Oct. 2012 – Oct. 2015

Areas of specialization: Internet & Security Technology, Operating Systems

Grade: 1.3

### DESIGN THINKING BASIC TRACK

HPI School of Design Thinking

Oct. 2012 – Feb. 2013

Designing novel service experiences for customers of AOK health insurance.

### B.Sc. IT-SYSTEMS ENGINEERING

Hasso Plattner Institute, Potsdam

Oct. 2009 – Aug. 2012

Thesis: Analysis and Implementation of a Software System for the Berlin Lifeguard

Grade: 1.6

## LINKS

GitHub: [chrisma](#)

SlideShare: [chrisma0](#)

LinkedIn: [christophmatthies](#)

## QUALIFICATIONS

### LANGUAGES

German and English: Native

French: Basic knowledge

### PROGRAMMING LANGUAGES

Python • Javascript • Ruby

Java • Smalltalk • R • C • C++

### TECHNOLOGIES

Django • Ruby on Rails • AngularJS

HTML • CSS •  $\text{\LaTeX}$  • Git • Bash

JQuery • Bootstrap • SQLite

MySQL • Ubuntu Linux • Windows

### CERTIFICATIONS

- Certified ScrumMaster, Scrum Alliance

- Microsoft Technology Associate: Database Admin. Fundamentals

## MASTER'S THESIS

### ScrumLint – Deriving Knowledge About the Implementation of Scrum from Development Artifacts

Supervisors: Prof. Dr. h.c. Hasso Plattner, Dr. Matthias Uflacker

Developed an approach to identify deviations from defined agile practices, based on analyses of development artifacts in a software development course.

## EXPERIENCE

### VOCATIONAL

#### SOFTWARE DEVELOPER

Since March 2016 | HPI, Potsdam

Development and operation of a Ruby on Rails application for the administration of employee contracts.

#### RESEARCH ASSISTANT

Jan. – Dec. 2015 | HPI, Potsdam

Design and implementation of a debugger front-end in JavaScript for interacting with stored procedures in a prototypical database with omniscient debugging.

#### TEACHING ASSISTANT

Oct. 2012 – March 2015 | HPI, Potsdam

Tutor of software engineering course. Mentoring and evaluation of student teams in implementing agile methods in a large-scale (40+ participants) software development project. (<https://github.com/hpi-swt2>).

### MISCELLANEOUS

#### ORGANIZING AGILE SOFTWARE WORKSHOPS

Since May 2017 | HPI, Potsdam

Organizing and mentoring introductory Scrum and agile development workshops for pupils interested in software development.

## EXTRACT OF PEER-REVIEWED PUBLICATIONS

- R. Teusner, **C. Matthies** and P. Giese, "Should I Bug You? Identifying Domain Experts in Software Projects Using Code Complexity Metrics," IEEE International Conference on Software Quality, Reliability and Security (QRS), Prague, 2017, pp. 418-425.
- **C. Matthies**, T. Kowark, M. Uflacker and H. Plattner, "Agile metrics for a university software engineering course," IEEE Frontiers in Education Conference (FIE), Erie, PA, USA, 2016, pp. 1-5.
- T. Kowark, **C. Matthies**, M. Uflacker, and H. Plattner, "Lightweight collection and storage of software repository data with DataRover," 31st IEEE/ACM International Conference on Automated Software Engineering (ASE), Singapore, 2016, pp. 810-815.
- **C. Matthies**, T. Kowark, and M. Uflacker, "Teaching Agile the Agile Way – Employing Self-Organizing Teams in a University Software Engineering Course," ASEE International Forum, New Orleans, Louisiana, 2016
- **C. Matthies**, T. Kowark, K. Richly, M. Uflacker, and H. Plattner, "How surveys, tutors, and software help to assess Scrum adoption in a classroom software engineering project," 38th International Conference on Software Engineering Companion (ICSE). Austin, TX, USA, 2016, pp. 313-322
- **C. Matthies**, T. Kowark, K. Richly, M. Uflacker, and H. Plattner, "ScrumLint: identifying violations of agile practices using development artifacts," 9th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), Austin, TX, USA, 2016, pp. 40-43