

Christoph Matthies

Curriculum Vitae

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Education

- Since Jan. 2016 **Research Assistant / PhD candidate, HPI, Potsdam.**
Research in the field of data-driven software development methodologies, especially concerning measurement and improvement, at the “Enterprise Platform and Integration Concepts” chair of Prof. Plattner.
- Oct. 2012 – Oct. 2015 **M.Sc. IT-Systems Engineering, Hasso Plattner Institute, University of Potsdam, Grade: 1.3.**
Areas of specialization: Internet & Security Technology, Operating Systems
- Oct. 2012 – Feb. 2013 **“Basic Track” Design Thinking, HPI School of Design Thinking.**
Designing novel service experiences for customers of AOK health insurance.
- Oct. 2009 – Aug. 2012 **B.Sc. IT-Systems Engineering, Hasso Plattner Institute, University of Potsdam, Grade: 1.6.**
Thesis: Analysis and implementation of a software system for the Berlin lifeguard.

Master's Thesis

- Title *ScrumLint – Deriving Knowledge About the Implementation of Scrum from Development Artifacts*
- Supervisors Prof. Dr. h.c. Hasso Plattner, Dr. Matthias Uflacker
- Abstract In the context of a course teaching agile methodologies we developed ScrumLint, an application which identifies deviations from defined agile practices, based on analyses of development artifacts.

Experience

Vocational

- Since March 2016 **Software developer, HPI, Potsdam.**
Development and operations of a Ruby on Rails application for the administration of employee contracts.
- Jan. – Dec. 2015 **Research Assistant, HPI, Potsdam.**
Design and implementation of a debugger front-end in Javascript for interacting with stored procedures in a prototypical database.
- Oct. 2012 – March 2015 **Teaching Assistant, 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

- Since May 2017 **Organizing agile workshops, HPI, Potsdam.**
Organizing and mentoring introductory Scrum and agile development workshops for pupils interested in software development.

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, L ^A T _E X, Git, Bash, JQuery, Bootstrap, SQLite, MySQL, TYPO3, Ubuntu Linux, Windows. See also projects on Github (https://github.com/chrisma) and Slideshare (http://slideshare.net/chrisma0)
Certifications	Certified ScrumMaster, Scrum Alliance. Microsoft Technology Associate: Database Administration Fundamentals.

Peer-Reviewed Publications

- July 2017, R. Teusner, **C. Matthies** and P. Giese. "Should I Bug You? Identifying Domain Experts in Software Projects Using Code Complexity Metrics". 2017 IEEE International Conference on Software Quality, Reliability and Security. Prague, Czech Republic. pp. 418-425.
- June 2017, G. Hesse, **C. Matthies**, B. Reissaus and M. Uflacker. "A New Application Benchmark for Data Stream Processing Architectures in an Enterprise Context: Doctoral Symposium". Proceedings of the 11th ACM International Conference on Distributed and Event-based System. Barcelona, Spain. pp. 359-362.
- Oct. 2016, **C. Matthies**, T. Kowark, M. Uflacker and H. Plattner. "Agile Metrics for a University Software Engineering Course". 46th IEEE Frontiers in Education Conference (FIE). Erie, PA, USA. pp. 1-5.
- Sept. 2016, T. Kowark, **C. Matthies**, M. Uflacker and H. Plattner. "Lightweight Collection and Storage of Software Repository Data with DataRover". Proceedings of the 31st IEEE/ACM International Conference on Automated Software Engineering (ASE). Singapore. pp. 810-815.
- July 2016, **C. Matthies**, M. Uflacker and H. Plattner. "Teaching Agile the Agile Way — Employing Self-Organizing Teams in a University Software Engineering Course". American Society for Engineering Education International Forum, collocated with ASEE 123rd Annual Conference & Exposition. New Orleans, LA.
- May 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". Proceedings of the 38th International Conference on Software Engineering (ICSE). Austin, TX. pp. 313-322.
- May 2016, **C. Matthies**, T. Kowark, K. Richly, M. Uflacker and H. Plattner. "ScrumLint: Identifying Violations of Agile Practices Using Development Artifacts". Proceedings of the 9th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), collocated with ICSE'16. Austin, TX. pp. 40-43.
- Sept. 2015, **C. Matthies**, L. Pirl, A. Azodi and C. Meinel. "Beat Your Mom at Solitaire — a Review of Reverse Engineering Techniques and Countermeasures". 6th IEEE International Conference on Software Engineering and Service Science (ICSESS). Beijing, China. pp. 1094-1097.