

# Martin Stoffers

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## Master Thesis

Title *Trustworthy Provenance Recording using a blockchain-like database*  
Supervisors Dr. Michael Martin, Andreas Schreiber

## Bachelor Thesis

Title *Vergleich von Lastverteilungsmechanismen unter Einsatz der Messaging-Protokolle ZeroMQ und AMQP*  
Supervisors Prof. Dr.-Ing. Thomas Meier, Prof. Dr. Mathias Krause  
Translation Comparison of load distribution mechanisms of the message passing protocols ZeroMQ and AMQP

## Education

2014 – 2017 **Master of Science, Computer Science**, *University Leipzig*, Leipzig, 2.0  
2014 – 2011 **Bachelor of Engineering, Communication and Information Technology**, *Hochschule für Telekommunikation Leipzig (HfTL)*, Leipzig, 1.4  
2010 – 2011 **Technical Diploma**, *Fachoberschule und Berufsfachschule Dr. P. Rahn & Partner*, Leipzig, 1.3  
1998 – 2001 **Apprenticeship, Communication and Electronics Technician**, *Karstadt Warenhaus AG, Unna*, (Focus: Information Technology)

## Awards

2014 **IfKom Ingenieurpreis 2014**, *IfKom - Ingenieure für Kommunikation e.V.*, Leipzig  
Awarded for outstanding work in the field of applied telecommunication informatics

## Languages

German Native Speaker  
English Advanced Fluency

\* 7 July 1981

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## Experience

- Since 2017 **Research Scientist**, *German Aerospace Center (DLR),  
Institut for Software Technology, Dept. Intelligent and Distributed Systems,  
Cologne*
- 2016 – 2017 **Research Assistant**, *German Aerospace Center (DLR),  
Institute for Software Technology, Dept. Intelligent and Distributed Systems,  
Cologne*  
Concept and Design of a W3C PROV Model for the BACARDI prototype.
- 2015 – 2016 **Research Assistant**, *Max Planck Institut for Human Cognitive and Brain Sciences,  
Dept. Neuroscience, Leipzig*  
Task programming in MatLab to support research projects at a BKIN KINARM Exoskeleton Lab.
- 2015 **Research Assistant**, *Forschungs- und Transferzentrum Leipzig e.V., Leipzig*  
Developing a Django-based Web application to automate and control measurement tasks in an EMC laboratory.
- 2013 – 2014 **Student Assistant**, *Hochschule für Telekommunikation Leipzig (HfTL), Leipzig*  
Evaluation and deployment of an automated source code inspector and linter (Praktomat).
- 2013 **Student Assistant**, *Hochschule für Telekommunikation Leipzig (HfTL), Leipzig*  
Tutor for Java.
- 2012 **Student Assistant**, *Hochschule für Telekommunikation Leipzig (HfTL), Leipzig*  
Tutor for C.
- 2005 – 2010 **Facility Manager**, *DHL Solutions Retail GmbH, Unna*  
Planing, maintenance, operation, and extension for fire alarm systems, intruder alarm systems, general alarm systems, telephone systems and, camera systems and access control systems.
- 2002 – 2005 **Facility Manager**, *Karstadt Warenhaus AG, Unna*  
Before amicable take-over by DHL Solutions Retail GmbH
- 1998 – 2002 **Apprenticeship, Communication and Electronics Technician**, *Karstadt Warenhaus AG, Unna*  
Subject: Information Technology

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## Projects

- Since 2022 **Awesome lists for RSEs**, *Maintainer*  
<https://github.com/hifis-net/awesome-rse>
- Since 2021 **HIFIS Consulting and Education**  
<https://hifis.net>
- Since 2021 **RSE Workshop Materials**, *Creating workshops concepts and materials for RSE training's*  
<https://gitlab.com/hifis/hifis-workshops>
- Since 2016 **BACARDI**, *A space debris software developed at DLR*
- Since 2015 **Eventphone**, *Supporting events related to the CCC e.V community with telephone networks*  
<https://eventphone.de/blog>
- 2011 – 2019 **Shownot.es**, *A collaborative platform for collecting Shownotes of Podcasts*  
<https://github.com/shownotes>

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## Soft Skills

### Mentoring

- Since 2022 **Supervision of a student assistants**
- Since 2021 **Supervision of a students in DLR's integrated degree program**
- 2019 **Supervision of internships**

### Team Development

- Since 2018 **Organization and moderation of project meetings and workshops**, *DLR*
- Since 2017 **Establishing processes for software development and change management for scientific software engineering projects**, *DLR*

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## Advanced training

- 2019 **TheCarpentries - Instructor Training**, *Online*
- Since 2017 **Various training's**, *DLR, Cologne*  
Topics: Scientific writing, Moderating workshops, Tool assisted software development, Writing for public relations

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## Volunteering

- 2000 – 2010 **Volunteer fire brigade**, *Feuerwehr Fröndenberg/Ruhr*

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## Skill matrix

■ ■ ■ ■ ■	basic knowledge	■ ■ ■ ■ ■	extensive project experience
■ ■ ■ ■ ■	intermediate knowledge with some project experience	■ ■ ■ ■ ■	deepened expert knowledge
		■ ■ ■ ■ ■	expert / specialist

	Level	Skill	Years	Comment
Language:	■ ■ ■ ■ ■	Python	11	<i>My every day language for the past years</i>
	■ ■ ■ ■ ■	L <sup>A</sup> T <sub>E</sub> X	10	
	■ ■ ■ ■ ■	C++	1	
	■ ■ ■ ■ ■	C	6	
	■ ■ ■ ■ ■	Java	6	
Operating Systems:	■ ■ ■ ■ ■	Linux	20	<i>Professional and private use</i>
	■ ■ ■ ■ ■	Windows	20	
Methods	■ ■ ■ ■ ■	Agile Development	6	
	■ ■ ■ ■ ■	ECSS Standard	1	
Tools and Software	■ ■ ■ ■ ■	Microsoft Office Products	6	
	■ ■ ■ ■ ■	Commandlines(e.g. bash)	20	
	■ ■ ■ ■ ■	Commandline tools	20	
	■ ■ ■ ■ ■	CI/CD	4	
	■ ■ ■ ■ ■	Jetbrains IDEs	8	
	■ ■ ■ ■ ■	AutoCad	3	

## Interests and Hobbys

Flying	Flying glider planes at Luftsportgruppe Menden e.V.
Telephone Systems	Operating and providing cordless and VOIP telephone systems at events associated with the Chaos Computer Club (CCC)

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## Publications

M. Stoffers, M. Meinel, B. Hofmann, and H. Fiedler, "A use case study on provenance-based data assessments for mission critical software systems," in *73rd International Astronautical Congress (IAC 2022)*, 2022.

M. Stoffers and A. Weinert, "Towards specificationless monitoring of provenance-emitting systems," in *Runtime Verification* (T. Dang and V. Stolz, eds.), (Cham), pp. 253–263, Springer International Publishing, 2022.

M. Stoffers, M. Meinel, B. Hofmann, and A. Schreiber, "Integrating provenance-awareness into the space debris processing system bacardi," in *2022 IEEE Aerospace Conference (AERO)*, pp. 1–12, 2022.

C. Haupt and M. Stoffers, "Roles in research software engineering (rse) consultancies," in *Research Software Engineers in HPC (RSE-HPC-2021)*, November 2021.

M. Stoffers, L. Kurnatowski, T. Sonnekalb, and A. Schreiber, "Automated, provenance-driven security audit for git-based repositories," in *Software Product Assurance Workshop*, October 2021.

L. Kurnatowski, M. Stoffers, and C. Haupt, "Provenance based software dashboards," in *Workshop on the Science of Scientific-Software Development and Use*, 2021.

L. von Kurnatowski, M. Stoffers, M. Weigel, M. Meinel, Y. Wasser, K. Rack, and H. Fiedler, "Scientific software engineering: Mining repositories to gain insights into bacardi," in *2020 IEEE Aerospace Conference*, pp. 1–10, August 2020.

C. Hoyer-Klick, U. Frey, H. Gardian, M. Blesl, F. Kattelman, S. Hellmann, J. Frey, L. Hülk, G. Luderer, M. Pehl, A. Giannousakis, M. Schroedter-Homscheidt, F. Drahtschmidt, L. von Bremen, P. Kuckertz, C. Haupt, and M. Stoffers, "Data infrastructure for energy system models," in *OpenMod*, January 2020.

M. Stoffers and M. Meinel, "Open source im bacardi projekt," in *14th Free and Open Source Software Conference (FrOSCon)*, August 2019.

M. Stoffers, M. Meinel, M. Weigel, M. Siggel, H. Fiedler, K. Rack, and Y. Wasser, "Bacardi: A system to track space debris," in *ESA NEO and DEBRIS DETECTION CONFERENCE - EXPLOITING SYNERGIES* -, February 2019.

H. Fiedler, J. Herzog, B. Hofmann, R. Kahle, M. Meinel, M. Prohaska, K. Rack, T. Schildknecht, M. Siggel, M. Stoffers, L. Kurnatowski, Y. Wasser, and M. Weigel, "Smartnet™ and bacardi," in *IAC 2019*, 2019.

M. Stoffers, "Trustworthy provenance recording using a blockchain-like database," Master's thesis, Leipzig University, March 2017.

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