### **Curriculum Vitae: Andreas Zeller**

Born October 28, 1965 in Hanau, Germany · Male · German CISPA Helmholtz Center for Information Security → and Saarland University →, Saarbrücken, Germany ACM Fellow · Five 10-year Most Influential Paper awards · 17,500+ citations · h-index ≥ 60 +49 681 302-70971 → zeller@cispa.saarland → https://andreas-zeller.info →

#### **Education**

1997 Ph.D. in Computer Science, TU Braunschweig (summa cum laude)
1991 Diploma in Computer Science, TU Darmstadt (passed with distinction)

#### **Positions**

2019-present	Faculty, CISPA Helmholtz Center for Information Security, Germany
2003-present	Full Professor, Computer Science, Saarland University, Germany
2001-2003	Associate Professor (C3), Computer Science, Saarland University, Germany
1999-2001	Post-Doc Researcher (C1), Computer Science, Passau University, Germany
1997-1999	Post-Doc Researcher (C1), Computer Science, TU Braunschweig, Germany
1991-1997	Scientific Assistant, Computer Science, TU Braunschweig, Germany

Guest researcher/lecturer at Microsoft Research, Redmond, USA (2011, 2009, 2005); ETH Zürich, Switzerland (2007); and University of Washington, USA (2005).

#### **Career-Long Contribution Awards**

- 2019 **IFIP Fellow** (IFIP's recognition of substantial and enduring contributions to the ICT industry)
- 2018 **ACM SIGSOFT Outstanding Research Award** (The highest research award by ACM SIGSOFT, the ACM special interest group on software engineering)
- 2010 **ACM Fellow** (ACM's most prestigious member grade recognizing the top 1% of ACM members for their outstanding accomplishments) as the youngest European researcher ever, for "contributions to automated debugging and mining software archives", two fields I helped to shape.

## **Impact Awards**

- 2020 **ISSTA 2020 Impact Paper Award** (the single ISSTA 2010 paper with the highest impact) for "Mutation-driven generation of unit tests and oracles" (with Gordon Fraser)
- 2017 **MSR 10-Year Most Influential Paper Award** (the single MSR 2007 paper with the highest impact) for "How Long Will It Take to Fix This Bug?" (with Cathrin Weiß, Rahul Premraj, and Thomas Zimmermann)
- 2015 **MSR 10-Year Most Influential Paper Award** (the single MSR 2005 paper with the highest impact) for "When do Changes induce Fixes?" (with Jacek Śliwerski and Thomas Zimmermann)
- 2015 ICSE 10-Year Most Influential Paper Award, Official Runner-Up (one of two ICSE 2005 papers with the second highest 10-year impact) for "Locating Causes of Program Failures" isolating cause-effect chains in failing programs (with Holger Cleve).
- 2014 **ICSE 10-Year Most Influential Paper Award** (the single ICSE 2004 paper with the highest 10-year impact) for "Mining Software Histories to Guide Software Changes" introducing mining software repositories (with Thomas Zimmermann, Peter Weißgerber, and Stephan Diehl).
- 2009 **ACM SIGSOFT 10-Year Impact Award** (the single 1999 software engineering paper with the highest 10-year impact) for "Yesterday, my program worked. Today, it does not. Why?" introducing Delta Debugging (single author).

#### **Significant Grants**

- 2011 **ERC Advanced Grant** (Europe's highest funding for individual researchers) of 2.2 Million EUR for "Specification Mining and Testing (SPECMATE)"
- 2011 Google Focused Research Award (750,000 US\$) for "Test Amplification"

## **Supervision of Graduate Students and Postdoctoral Fellows**

2001–present 12 Ph.D.s completed, 4 Ph.D.s to complete in 2020, 7 Ph.D.s currently supervised 9 Post-Docs completed, 2 Post-Docs currently associated, all at CISPA and Saarland U

# **Teaching Activities**

2019	Textbook "The Fuzzing Book" (with Gopinath, Böhme, Fraser, Holler)
2018-present	Course of Studies "Entrepreneurial Cybersecurity" (Saarland Teaching Award 2020)
2012	Udacity Online Course CM259 "Software Debugging" (commissioned by Udacity)
2005	Textbook "Why Programs Fail", Morgan Kaufmann Editors
1997-present	Courses on Software Engineering, Introduction to Programming, Program Analysis,
	Software Testing, Security Testing, Automated Debugging

## **Organization of Scientific Meetings**

2022	<b>Program Chair</b>	ACM/IEEE Intl. Conference on Software Engineering		
		(ICSE 2022; co-chaired with Daniela Damian)		
2020	<b>Program Chair</b>	IEEE International Conference on Software Testing and Verification		
		(ICST 2020; co-chaired with Corina Păsăreanu)		
2016	<b>General Chair</b>	IEEE European Symposium on Security and Privacy (EuroS&P 2016)		
2016	<b>General Chair</b>	ACM Intl. Symposium on Software Testing and Analysis (ISSTA 2016)		
2013	<b>Program Chair</b>	ACM/IEEE Intl. Conference on Automated Software Engineering		
		(ASE 2013; co-chaired with Tevfik Bultan)		
2011	<b>Program Chair</b>	European Conference on Software Engineering /		
		ACM SIGSOFT Foundations of Software Engineering (ESEC/FSE 2011)		
2008	<b>Program Chair</b>	ACM Intl. Symposium on Software Testing and Analysis (ISSTA 2008)		
Co-Organizer of four Dagstuhl Seminars in the past ten years (2010, 2011, 2015, 2017).				

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# **Institutional Responsibilities**

2016–2018	Elected member, Saarland University Senate.
2008-2018	Scientific Vice-Coordinator, Saarbrücken Graduate School for Computer Science.
2001-2018	Head of the Software Engineering Chair at Saarland University.
	Position offers from Mannheim, Hannover, Zürich, and Karlsruhe.

#### **Commissions of Trust**

2016-present	Research Highlights Editorial Board, Communications of the ACM
2016-present	Editorial Board, Journal of Software Testing, Verification and Reliability
2008-present	Steering Committee, Int. Symposium on Software Testing and Analysis (ISSTA)
2011-2020	National DFG Proposal Review Panel for Computer Science, Elected Member
2013-2017	Editorial Board, IEEE Transactions on Software Engineering (TSE)
2009-2017	Editorial Board, Springer Journal on Empirical Software Engineering (ESEM)
2011-2016	Steering Committee, European Software Engineering Conference (ESEC)