Curriculum Vitae: Andreas Zeller

Born October 28, 1965 in Hanau, Germany
CISPA Helmholtz Center for Information Security and Saarland University, Saarbrücken, Germany
ACM Fellow · Six 10-Year Impact Paper Awards · 19,500+ citations · h-index ≥ 60
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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 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

2021 **ICST 2021 Most Influential Paper Award** for "Assessing Oracle Quality with Checked Coverage" (ICST 2011; with David Schuler)

2020 **ISSTA 2020 Impact Paper Award** for "Mutation-Driven Generation of Unit Tests and Oracles" (ISSTA 2010; with Gordon Fraser)

2017 **MSR 10-Year Most Influential Paper Award** for "How Long Will It Take to Fix This Bug?" (MSR 2007; with Cathrin Weiß, Rahul Premraj, and Thomas Zimmermann)

2015 **MSR 10-Year Most Influential Paper Award** for "When do Changes induce Fixes?" (MSR 2005; with Jacek Śliwerski and Thomas Zimmermann)

2015 **ICSE 10-Year Most Influential Paper Award, Official Runner-Up** (one of two runner-up papers) for "Locating Causes of Program Failures" (ICSE 2005; with Holger Cleve)

2014 **ICSE 10-Year Most Influential Paper Award** for "Mining Software Histories to Guide Software Changes" (ICSE 2004; with Thomas Zimmermann, Peter Weißgerber, and Stephan Diehl)

2009 **ACM SIGSOFT 10-Year Impact Award** for "Yesterday, my program worked. Today, it does not. Why?" (ESEC 1999; single author).

Significant Grants

2011   **ERC Advanced Grant** (Europe's highest funding for individual researchers) of 2.2 million € 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   15 Ph.D.s completed, 6 Ph.D.s to complete in 2021, 9 Ph.D.s currently supervised
9 Post-Docs completed, 3 Post-Docs currently associated, all at CISPA and Saarland U

Teaching Activities

2021   Interactive textbook "The Debugging Book" ⧉

2019   Inetractive 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   **Program Chair**   ACM/IEEE International Conference on Software Engineering (ICSE 2022; co-chaired with Daniela Damian)

2020   **Program Chair**   IEEE International Conference on Software Testing and Verification (ICST 2020; co-chaired with Corina Păsăreanu)

2016   **General Chair**   IEEE European Symposium on Security and Privacy (EuroS&P 2016)

2016   **General Chair**   ACM International Symposium on Software Testing and Analysis (ISSTA 2016)

2013   **Program Chair**   ACM/IEEE International Conference on Automated Software Engineering (ASE 2013; co-chaired with Tevfik Bultan)

2011   **Program Chair**   European Conference on Software Engineering / ACM SIGSOFT Foundations of Software Engineering (ESEC/FSE 2011)

Co-Organizer of three Dagstuhl Seminars in the past ten years (2011, 2015, 2017).

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

Commissions of Trust

2018–present   Steering Committee, International Conference on Software Engineering (ICSE)

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)