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 · 17,000+ 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   Founding 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 **Program Chair**   ACM/IEEE Intl. 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 Intl. Symposium on Software Testing and Analysis (ISSTA 2016)
2013 **Program Chair**   ACM/IEEE Intl. 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)
2008 **Program Chair**   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).

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)