

Alberto Bacchelli

University of Zurich



about

Dr. Bacchelli is an SNSF professor of **Empirical Software Engineering** at University of Zurich, Switzerland, where he leads the Zurich Empirical Software Engineering Team (ZEST).

His broader research vision is to move software engineering away from decisions based on intuition, or development activities painstakingly conducted manually, into solutions created using data-driven mathematical models, which make use of the large amount of information available during the software engineering process.

He is recipient of six among Best Paper Awards and ACM SIGSOFT Distinguished Paper Awards, awarded from the top academic venues in software engineering and computer supported collaborative work.

contacts

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publication indexes

<http://Google Scholar>
<http://DBLP>

languages

Italian: native speaker
English: fluent
French: conversational

professional memberships

ACM

education

- 04.2009–06.2013 **Ph.D.** in Informatics Università della Svizzera Italiana, Switzerland
Thesis: *Mining Unstructured Software Data*
Supervisor: *Prof. Dr. Michele Lanza*
- 04.2006–03.2008 **M.Sc.** in Computer Science University of Bologna, Italy
Final grade: *110/110 cum laude*
- 09.2006–06.2007 **M.Sc. year** within EU Erasmus program Université Libre de Bruxelles, Belgium
Main subjects: Software Engineering and Probabilistic Models
- 09.2002–03.2006 **B.Sc.** in Computer Science University of Bologna, Italy
Final grade: *110/110 cum laude*

professional appointments

- 08.2017–now **SNSF Professor** University of Zurich, Switzerland
Research and teaching about empirical software engineering.
- 09.2013–08.2017 **Assistant professor, tenured after tenure-track** TU Delft, The Netherlands
Research in software engineering with focus on peer code review and mining unstructured software data. Teaching 3 courses (B.Sc. and M.Sc.) and supervising M.Sc. as well as Ph.D. students.
- 04–08.2013 **Research intern** Microsoft Research, Redmond, USA
Work on two projects: (1) visualization of code reviews to support understanding and (2) investigating and implementing a system for reviewer recommendation.
- 05–08.2012 **Research intern** Microsoft Research, Redmond, USA
Work on two projects: (1) data mining approach to link code reviews and code commits and (2) investigating tool-based code review at Microsoft.
- 04.2008–04.2009 **Software Engineer** CINECA, Italy
Design and implementation of an automatic test suite for producing, collecting, and analyzing data to test a large-scale web application to manage universities.

research

awards and honors

2018	Best Paper Honorable Mention “Information Needs in Contemporary Code Review”	CSCW 2018
2017	ACM SIGSOFT Distinguished Paper Award “Classifying code comments in Java open-source software systems”	MSR 2017
2016	ACM SIGSOFT Distinguished Paper Award “Work Practices and Challenges in Pull-Based Development: The Contributor’s Perspective”	ICSE 2016
2015	Best Paper Award “Supporting Developers’ Coordination in The IDE”	CSCW 2015
2014	Google Faculty Research Award The program is focused on funding world-class technical research in Computer Science, Engineering, and related fields.	Google 2014
2009	Best Paper Award “Benchmarking Lightweight Techniques to Link E-Mails and Source Code”	WCRE 2009
2008	Best Paper Award “On the Effectiveness of Manual and Automatic Unit Test Generation”	ICSEA 2008

nominations for awards and honors

2018	Nomination for ACM SIGSOFT Distinguished Paper Award “What Makes A Code Change Easier To Review: An Empirical Investigation On Code Change Reviewability”	ESEC/FSE 2018
2016	Nomination for Best Paper Award “On the reaction to deprecation of 25,357 clients of 4+1 popular Java APIs”	ICSME 2016
2015	Nomination for Best Paper Award “Untangling Fine-Grained Code Changes”	SANER 2015
2014	Finalist for the Cor Baayen Award ERCIM awards promising young researchers in computer science and applied mathematics.	ERCIM 2014
2013	Nomination for ACM SIGSOFT Distinguished Paper Award “Expectations, Outcomes, and Challenges of Modern Code Review”	ICSE 2013

grants

2017	SNSF Professorship - Data-driven Contemporary Code Review On transforming code review into an engineering approach.	PI – approx. 1.5M CHF
2016	STW Take Off - PReview Code On an approach to improve the understandability of changes under review.	PI – 40k EUR
2015	NWO Top-1 grant - Persistent Code Reviewing On investigating techniques to persist and generalize code review efforts.	Co-PI – approx. 650k EUR
2014	H2020 MSCA-ITN-2014-EID - SENECA On data science for software engineering in the cloud.	Co-PI – 255k EUR of 2.2M EUR
	INRIA Associate Team - Improving code review tools On creating novel code review tools for dynamically typed languages.	Co-PI – 10K EUR
	Google Faculty Research Award On investigating the code review process.	PI – approx. 50k EUR

invited talks

- 2019 **Contemporary Code Review Practices** Shenzhen, China
Huawei Technologies Co., Ltd.
- 2018 **What Do Code Reviews at Microsoft and in OSS Have in Common?** Zurich, Switzerland
adesso Schweiz
- 2017 **Evidence-based Code Review** London, United Kingdom
56th CREST Open Workshop, University College London
- Contemporary Peer Code Review** Zurich, Switzerland
Software Evolution and Architecture Lab, University of Zurich
- 2016 **Advances in Code Review** Amsterdam, The Netherlands
BESTSELLER
- What Do Code Reviews at Microsoft and in OSS Have in Common?** Bruxelles, Belgium
FOSDEM 2016
- Data-driven Contemporary Code Review** Zurich, Switzerland
University of Zurich, Switzerland
- Data-driven Contemporary Code Review** Lugano, Switzerland
Università della Svizzera Italiana, Switzerland
- 2015 **Code review needs the right approach** Bodegraven, The Netherlands
Stabiplan BV
- Expectations, Outcomes, and Challenges of Modern Code Review** Berlin, Germany
Software engineering research group (AG SE), Freie Universität Berlin
- Software Analytics needs the right data and the right questions** London, England
Software Systems Engineering Group, University College London
- Mining Unstructured Software Data** Nijmegen, The Netherlands
Digital security group, Radboud Universiteit Nijmegen
- Supporting Developers' Teamwork in The IDE** Vancouver, BC, Canada
Software Analysis and Testing (SALT) lab, University of British Columbia
- 2014 **Mining Unstructured Software Data** Namur, Belgium
PReCISE Research Center, Université de Namur
- 2012 **Pearls In The MUD, Mining Structured Data in NL Artifacts** Delft, The Netherlands
Software Engineering Research Group (SERG), TU Delft
- Mining Development Email Archives** Victoria, Canada
Computer Human Interaction & Software Engineering Lab, University of Victoria
- Mining Development Email Archives** Montreal, QC, Canada
SOCCER Lab, École Polytechnique de Montréal
- Mining Development Email Archives** Kingston, ON, Canada
Software Analysis and Intelligence Lab, Queen's University

professional service

conferences

- 2020 **CSCW** (Associate chair), **MSR** (PC member, SC member)
- 2019 **ASE** (PC member), **CSCW** (Associate chair), **ESEC/FSE** (PC member), **ICPC** (PC member), **ICSME** (PC member), **MSR** (PC member, SC member)
- 2018 **ASE** (PC member), **ESEC/FSE** (PC member), **ICPC** (PC member), **MSR** (PC member, SC member)
- 2017 **ESEC/FSE** (PC member), **ICSE** (PC member)
- 2016 **ICSE** (PC member), **ICPC** (PC member), **ICSME** (Tool demo track, co-chair), **IWESEP** (PC member), **MSR** (PC member), **MUD** (SC member), **SANER** (ERA track, co-chair),
- 2015 **ASE** (Tool demo track, PC member), **FSE** (Tool demo track, PC member), **ICPC** (PC member), **ICSE** (social networking co-chair), **ICSME** (PC member), **ISEC** (PC member), **MSR** (PC member), **MUD** (SC member), **SANER** (PC member)
- 2014 **ACM SRC** (PC member), **CSEE&T** (PC member), **CSMR-WCRE** (PC member), **ECOOP** (artifact evaluation, PC member), **ICSME** (PC member), **MSR** (PC member), **MUD** (co-organizer)
- 2013 **CSS&T** (PC member), **CSMR** (ERA track, PC member) **ICPC** (ERA track, PC member), **ICSM** (Tool demo track, PC member), **MSR** (Mining challenge chair), **MUD** (co-organizer), **NaturalISE** (co-organizer), **WCRE** (PC member)
- 2012 **CSEE&T** (PC member), **CSMR** (publicity chair), **ICSM** (publicity chair), **MSR** (Mining challenge, PC member), **MUD** (co-organizer)

journal referee

- TOSEM** ACM Transactions on Software Engineering and Methodology, ACM.
- TSE** IEEE Transactions on Software Engineering, IEEE Computer Society.
- EMSE** Empirical Software Engineering: An International Journal, Springer.
- JSEP** Journal of Software: Evolution and Process (formerly known as Journal on Software Maintenance and Evolution: Research and Practice, JSME), John Wiley & Sons.
- JSS** Journal of Systems and Software, Elsevier.
- PeerJ** PeerJ Computer Science.

teaching

instructor

- 2018–2019 **SHSG Summer School (B. Sc. and M.Sc.)** instructor – HSG
Students from St. Gallen University without knowledge in programming learn how to program.
- Data Science for Software Engineering (B.Sc. and M.Sc.)** instructor – University of Zurich
This edition continued the structure of the previous one.
- Software Testing (B. Sc. and M.Sc.)** co-instructor – University of Zurich
Teaching theoretical and practical aspects of software testing.
- START Hackademy (B.Sc. and M.Sc.)** instructor – University of Zurich
Students from St. Gallen University without knowledge in programming learn how to program.
- 2017–2018 **SHSG Summer School (B. Sc. and M.Sc.)** instructor – HSG
Students from St. Gallen University without knowledge in programming learn how to program.
- Data Science for Software Engineering (B.Sc. and M.Sc.)** instructor – University of Zurich
Students explore the topic and work on creating a research proposal on a novel idea.
- START Hackademy (B.Sc. and M.Sc.)** instructor – University of Zurich
Students from St. Gallen University without knowledge in programming learn how to program.
- Mining Software Repositories (M.Sc.)** instructor – TU Delft
This edition of the course has seen an increase in the involvement of my supervised Ph.D. students, in order to make them gain experience in advising Master students on topics related to their Ph.D. tracks.
- Software Engineering Methods (B.Sc.)** co-instructor – TU Delft
This edition was taught together with Dr. Palomba. A significant addition to the course regarded aspects of software security and defensive programming.
- 2015 ... 2017 **Context Project (B.Sc.)** co-coordinator, SE instructor, and context teacher – TU Delft
These editions continued the structure of the previous one.
- Mining Software Repositories (M.Sc.)** instructor – TU Delft
These editions continued the structure of the previous one.
- Software Engineering Methods (B.Sc.)** instructor – TU Delft
These editions continued the structure of the previous one.
- 2014–2015 **Context Project (B.Sc.)** co-coordinator and SE instructor – TU Delft
In this edition of the course, I also introduced the use of pull-based development model (on GitHub), static analysis tools, and code reviews.
- Mining Software Repositories (M.Sc.)** instructor – TU Delft
Students learn about recent research on software analytics and implement a full data mining approach, from data collection and analysis scripts to final report writing.
- Software Engineering Methods (B.Sc.)** instructor – TU Delft
In this edition, I introduced a group project. Students develop a fully working game and iterate over it using SCRUM and guided by weekly assignments.
- 2013–2014 **Context Project (B.Sc.)** co-coordinator and SE instructor – TU Delft
Students learn to develop, implement, validate, present, and demonstrate a software product that satisfies the needs of an external party in a given non-ICT context. I co-coordinate the 8 teachers involved and I am responsible for supervising and evaluating the software engineering aspects of the course.
- Software Evolution Seminars (M.Sc.)** co-instructor – TU Delft
Students form groups of two and present and debate in class recent papers about software evolution. The teachers guide the discussion and evaluate students' presentations and participation in debates.
- Software Engineering Methods (B.Sc.)** instructor – TU Delft
Students learn the basics of software engineering. Topics include requirements engineering, advanced OO programming, design patterns, UML, agile methodologies, software visualization.

student supervision (since being a faculty member)

in progress	Larissa Barbosa <i>Code review and security</i>	since Nov 2018, <u>Ph.D. student</u> , University of Zurich
	Enrico Fregnan <i>Software Coupling</i>	since Aug 2018, <u>Ph.D. student</u> , University of Zurich
	Pavlna Wurzelová <i>Social Aspects Of Code Review</i>	since Jun 2018, <u>Ph.D. student</u> , University of Zurich
	Vladimir Kovalenko <i>Usefulness Of Developers' Tools</i>	since Oct 2016, <u>Ph.D. student</u> , TU Delft
	Davide Spadini <i>Collaborative Software Testing</i>	co-supervision with SIG, since Jul 2016, <u>Ph.D. student</u> , TU Delft
	Luca Pascarella <i>Software Quality</i>	since Jan 2016, <u>Ph.D. student</u> , TU Delft
	Anand Sawant <i>Mining fine-grained large-scale API usage</i>	since Jan 2016, <u>Ph.D. student</u> , TU Delft
2019	Lorenzo Gasparini <i>Software Visualization for Code Review</i>	<u>M.Sc. Thesis</u> , TU Delft
2018	Enrico Fregnan <i>Auto-ordering Code Changes for Review</i>	<u>M.Sc. Thesis</u> , TU Delft
	Moritz Eck <i>Automatic Categorization Of Flaky Tests</i>	<u>B.Sc. Thesis</u> , University of Zurich
2017	Menno Oudshoorn and Bart de Jonge <i>Unobtrusive automated support for software developers</i>	<u>Honors program</u> , TU Delft
	Jorden van Breemen <i>On the Effect of Code Quality on Agile Effort Estimations: The Case of Shell</i>	<u>M.Sc. Thesis</u> , TU Delft
2016	Eva Anker and Tim van der Lippe and Thomas Smith <i>Enhanced GitHub code review</i>	<u>B.Sc. Project</u> , TU Delft
2015	Reinier Hartog <i>Octopull: Supporting reviews of pull-requests</i>	<u>M.Sc. Thesis</u> , TU Delft
	Ahmad Yandriansyah Reza <i>Requirements Engineering Practices in Global Software Engineering Organization</i>	co-supervision with D.M. van Solingen, <u>M.Sc. Thesis</u> , TU Delft
	Anand Sawant <i>Mining fine-grained API usage from GitHub</i>	<u>M.Sc. Thesis</u> , TU Delft
	Vincent Hellendoorn <i>Empirical Software Linguistics: An Investigation of Code Reviews, Recommendations and Faults</i> Best Master Thesis of the EEMCS Faculty 2015	<u>M.Sc. Thesis</u> , TU Delft

References - Alberto Bacchelli

prof. dr. Harald Gall

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Affiliation: University of Zurich
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Phone: +41 44 635 43 21

prof. dr. Michele Lanza

Role: Professor and Prorector
Affiliation: Università della Svizzera Italiana
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Email: michele.lanza@usi.ch
Web: <http://www.inf.usi.ch/lanza/>
Phone: +41 58 666 4659

prof. dr. Premkumar T. Devanbu

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prof. dr. Massimiliano Di Penta

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prof. dr. Margaret-Anne Storey

Role: Professor
Affiliation: University of Victoria
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STN CSC Victoria, B.C. Canada, V8W 3P6
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Complete list of publications - Alberto Bacchelli

Peer-reviewed conferences are accepted in software engineering as high-quality scholarly articles. This point is expressed in the article “Research Evaluation for Computer Science” in *Communications of the ACM* (April 2009).¹

The ACM/IEEE International Conference on Software Engineering (ICSE) and the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE) are considered the most prestigious conferences, with the highest standards in the software engineering field.² I have published 11 papers in the main tracks at ICSE and FSE, of which two have been nominated for an ACM SIGSOFT Distinguished Paper Award (ICSE 2013, FSE 2018) and one has received an ACM SIGSOFT Distinguished Paper Award (ICSE 2016).

According to Google scholar (Aug 28, 2019), my h-index is 23 with 2,291 citations showing an upward trend.

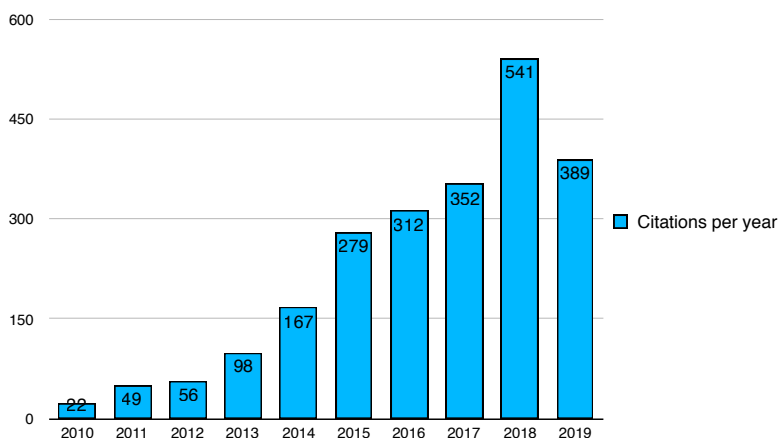


Figure 1: Citations per year, according to Google Scholar on Aug 28, 2019.

international peer-reviewed conference papers

[ICSE 2019] When Code Completion Fails: A Case Study On Real-World Completions

Vincent Hellendoorn, Sebastian Proksch, Harald C. Gall, Alberto Bacchelli

41st ACM/IEEE International Conference on Software Engineering, pp. 960–970, 2019

[ICSE 2019] Test-Driven Code Review: An Empirical Study

Davide Spadini, Fabio Palomba, Tobias Baum, Stefan Hanenberg, Magiel Bruntink, Alberto Bacchelli

41st ACM/IEEE International Conference on Software Engineering, pp. 1061–1072, 2019

[MSR 2019 - Tool] PathMiner: A Library for Mining of Path-Based Representations of Code

Vladimir Kovalenko, Egor Bogomolov, Timofey Bryksin, Alberto Bacchelli

16th International Conference on Mining Software Repositories, pp. 13–17, 2019

[MSR 2019] On the Effectiveness of Manual and Automatic Unit Test Generation: Ten Years Later

Domenico Serra, Giovanni Grano, Fabio Palomba, Filomena Ferrucci, Harald C. Gall, Alberto Bacchelli

16th International Conference on Mining Software Repositories, pp. 121–125, 2019

[ESEC/FSE 2019] Understanding Flaky Tests: The Developer’s Perspective

Moritz Eck, Fabio Palomba, Marco Castelluccio, Alberto Bacchelli

27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 830–840, 2019

[CSCW 2018] Information Needs in Contemporary Code Review

Luca Pascarella, Davide Spadini, Fabio Palomba, Magiel Bruntink, Alberto Bacchelli

21st ACM conference on Computer-Supported Cooperative Work and Social Computing, 135:1–135:27, 2018

Best Paper Honorable Mention

¹This point is also underlined by Michael D. Ernst (Professor at the University of Washington, and previously researcher at Microsoft Research and tenured professor at MIT): “conference papers are arguably more prestigious than journal publications: oftentimes, conferences have higher standards and lower acceptance rates.” For a copy: <http://sback.it/other/ernst-conf-vs-journal-uscis.pdf>.

²This is also expressed in the article: “Automatic and versatile publications ranking for research institutions and scholars” in *Comm. of the ACM* (June 2007)

- [MOBILESoft 2018] Self-reported activities of Android developers
Luca Pascarella, Fabio Palomba, Franz-Xaver Geiger, Dario Di Nucci, Ivano Malavolta, [Alberto Bacchelli](#)
5th International Conference on Mobile Software Engineering and Systems, pp. 144–155, 2018
- [ICSE 2018 - SEIP] Modern Code Review: A Case Study at Google
Caitlin Sadowski, Emma Söderberg, Luke Church, Michal Sipko, [Alberto Bacchelli](#)
40th ACM/IEEE International Conference on Software Engineering, Software Engineering in Practice Track, pp. 181–190, 2018
- [ICSE 2018] Understanding Developers’ Needs on Deprecation as a Language Feature
Anand Ashok Sawant, Mauricio Aniche, Arie van Deursen, [Alberto Bacchelli](#)
40th ACM/IEEE International Conference on Software Engineering, pp. 561–571, 2018
- [ICSE 2018] When Testing Meets Code Review: Why and How Developers Review Tests
Davide Spadini, Mauricio Aniche, Margaret Storey, Magiel Bruntink, [Alberto Bacchelli](#)
40th ACM/IEEE International Conference on Software Engineering, pp. 677–687, 2018
- [ICSME 2018] On The Relation of Test Smells to Software Code Quality
Davide Spadini, Fabio Palomba, Andy Zaidman, Magiel Bruntink, [Alberto Bacchelli](#)
34th IEEE International Conference on Software Maintenance and Evolution, pp. 1–12, 2018
- [ICSME 2018] Why are features deprecated? An investigation into the motivation behind deprecation
Anand Ashok Sawant, Guangzhe Huanag, Gabriel Vilen, Stefan Stojkovski, [Alberto Bacchelli](#)
34th IEEE International Conference on Software Maintenance and Evolution, pp. 13–24, 2018
- [ASE 2018] Mining File Histories: Should We Consider Branches?
Vladimir Kovalenko, Fabio Palomba, [Alberto Bacchelli](#)
33rd IEEE/ACM International Conference on Automated Software Engineering, pp. 202–213, 2018
- [ASE 2018 - New Ideas] Continuous Code Quality: Are We (Really) Doing That?
Carmine Vassallo, Fabio Palomba, [Alberto Bacchelli](#), Harald C. Gall
33rd IEEE/ACM International Conference on Automated Software Engineering, New Ideas Track, pp. 790–795, 2018
- [MSR 2018 - Data] A graph-based dataset of commit history of real-world Android apps
Franz-Xaver Geiger, Ivano Malavolta, Luca Pascarella, Fabio Palomba, Dario Di Nucci, [Alberto Bacchelli](#)
15th International Conference on Mining Software Repositories, Data Track, pp. 30–33, 2018
- [MSR 2018] How Is Video Game Development Different from Software Development in Open Source?
Luca Pascarella, Fabio Palomba, Massimiliano Di Penta, [Alberto Bacchelli](#)
15th International Conference on Mining Software Repositories, pp. 392–402, 2018
- [ESEC/FSE 2018] What Makes A Code Change Easier To Review: An Empirical Investigation On Code Change Reviewability
Achyudh Ram, Anand Ashok Sawant, Marco Castelluccio, [Alberto Bacchelli](#)
26th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 201–212, 2018
Nominated for ACM SIGSOFT Distinguished Paper Award
- [ESEC/FSE 2018 - Tool Demo] PyDriller: Python framework for mining software repositories
Davide Spadini, Mauricio Finavaro Aniche, [Alberto Bacchelli](#)
26th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 908–911, 2018
- [SANER 2018] Re-evaluating method-level bug prediction
Luca Pascarella, Fabio Palomba, [Alberto Bacchelli](#)
25th International Conference on Software Analysis, Evolution and Reengineering, RENE track, pp. 592–601, 2018
- [ICSE 2017 - Introspection] Double-blind review in software engineering venues: the community’s perspective
[Alberto Bacchelli](#), Moritz Beller
39th ACM/IEEE International Conference on Software Engineering (Companion Volume), pp. 385–396, 2017
- [ICSME 2017] On the Optimal Order of Reading Source Code Changes for Review
Tobias Baum, Kurt Schneider, [Alberto Bacchelli](#)
33rd IEEE International Conference on Software Maintenance and Evolution, pp. 329–340, 2017
- [MSR 2017] Classifying code comments in Java open-source software systems
Luca Pascarella, [Alberto Bacchelli](#)
14th International Conference on Mining Software Repositories, pp. 227–237, 2017
ACM SIGSOFT Distinguished Paper Award
- [MSR 2017] To mock or not to mock? An empirical study on mocking practices
Davide Spadini, Mauricio Aniche, Magiel Bruntink, [Alberto Bacchelli](#)

14th International Conference on Mining Software Repositories, pp. 402–412, 2017

[ESEM 2016] Social Diversity and Activity Levels of Open Source Software Projects on GitHub

Joop Aué, Michiel Haisma, Kristin Fjola Tomasdottir, [Alberto Bacchelli](#)

10th International Symposium on Empirical Software Engineering and Measurement, 41:1–41:6, 2016

[GECCO 2016] A Search-based Training Algorithm for Cost-aware Defect Prediction

Annibale Panichella, Carol V. Alexandru, Sebastiano Panichella, [Alberto Bacchelli](#), Harald C. Gall

Genetic and Evolutionary Computation Conference, pp. 1077–1084, 2016

[ICSE 2016] Work Practices and Challenges in Pull-Based Development: The Contributor’s Perspective

Georgios Gousios, Margaret-Anne Storey, [Alberto Bacchelli](#)

38th ACM/IEEE International Conference on Software Engineering, pp. 285–296, 2016

ACM SIGSOFT Distinguished Paper Award

[ICSE 2016] On the “Naturalness” of Buggy Code

Baishakhi Ray, Vincent Hellendoorn, Saheel Godhane, Zhaopeng Tu, [Alberto Bacchelli](#), Premkumar Devanbu

38th ACM/IEEE International Conference on Software Engineering, pp. 428–439, 2016

[ICSME 2016] On the reaction to deprecation of 25,357 clients of 4+1 popular Java APIs

Anand Sawant, Romain Robbes, [Alberto Bacchelli](#)

32nd International Conference on Software Maintenance and Evolution, pp. 400–410, 2016

Nominated for Best Paper Award

[SCAM 2016] A Security Perspective on Code Review: The Case of Chromium.

Marco Biase, Magiel Bruntink, [Alberto Bacchelli](#)

16th IEEE International Working Conference on Source Code Analysis and Manipulation, pp. 21–30, 2016

[FSE 2016 - Tool Demo] Visualizing code and coverage changes for code review

Sebastian Oosterwaal, Arie Deursen, Roberta Coelho, Anand Ashok Sawant, [Alberto Bacchelli](#)

24th ACM SIGSOFT International Symposium on Foundations of Software Engineering, pp. 1038–1041, 2016

[CSCW 2015] Supporting Developers’ Coordination in the IDE

Anja Guzzi, [Alberto Bacchelli](#), Yann Riche, Arie van Deursen

18th ACM conference on Computer-Supported Cooperative Work and Social Computing, pp. 518–532, 2015

Best Paper Award

[MSR 2015] Will they like this? Evaluating Code Contributions With Language Models

Vincent Hellendoorn, Premkumar Devanbu, [Alberto Bacchelli](#)

12th Working Conference on Mining Software Repositories, pp. 157–167, 2015

[MSR 2015 - Data] A Dataset For API Usage

Anand Sawant, [Alberto Bacchelli](#)

12th Working Conference on Mining Software Repositories, Data Track, pp. 506–509, 2015

[SANER 2015] Untangling Fine-Grained Code Changes

Martin Dias, [Alberto Bacchelli](#), Georgios Gousios, Damien Cassou, Stéphane Ducasse

22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering, pp. 341–350, 2015

Nominated for Best Paper Award

[ICSME 2014] Improving Low Quality Stack Overflow Post Detection

Luca Ponzanelli, Andrea Mocci, [Alberto Bacchelli](#), Michele Lanza, David Fullerton

30th International Conference on Software Maintenance and Evolution, Industrial Track, pp. 541–544, 2014

[MSR 2014] Modern Code Reviews in Open-Source Projects: Which Problems Do They fix?

Moritz Beller, [Alberto Bacchelli](#), Andy Zaidman, Elmar Juergens

11th Working Conference on Mining Software Repositories, pp. 202–211, 2014

[QSIC 2014] Quantitatively Exploring Non-code Software Artifacts

Luca Bigliardi, Michele Lanza, [Alberto Bacchelli](#), Marco D’Ambros

14th International Conference on Quality Software, pp. 286–295, 2014

[QSIC 2014] Understanding and Classifying the Quality of Technical Forum Questions

Luca Ponzanelli, Andrea Mocci, [Alberto Bacchelli](#), Michele Lanza

14th International Conference on Quality Software, pp. 343–352, 2014

[CSMR 2013] Leveraging Crowd Knowledge for Software Comprehension and Development

Luca Ponzanelli, [Alberto Bacchelli](#), Michele Lanza

17th European Conference on Software Maintenance and Reengineering, pp. 57–66, 2013

- [ICSE 2013] Expectations, Outcomes, and Challenges of Modern Code Review
Alberto Bacchelli, Christian Bird
35th ACM/IEEE International Conference on Software Engineering, pp. 710–719, 2013
Nominated for ACM SIGSOFT Distinguished Paper Award
- [ICSE 2013 - Tool Demo] Seahawk: Stack Overflow in the IDE
Luca Ponzanelli, Alberto Bacchelli, Michele Lanza
35th International Conference on Software Engineering, Tool Demo Track, pp. 1295–1298, 2013
- [ICSM 2013 - ERA] Which Feature Location Technique is Better?
Emily Hill, Alberto Bacchelli, Dave W. Binkley, Bogdan Dit, Dawn J. Lawrie, Rocco Oliveto
29th IEEE International Conference on Software Maintenance, pp. 408–411, 2013
- [ICPC 2013] Manhattan: Supporting Real-Time Visual Team Activity Awareness
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