



# Davide Spadini

Software Engineer & Researcher

## About me

I am an Italian Software Engineer & Researcher with a strong background in software development and testing. I currently work as a Software Engineer at Facebook in the team "Whatsapp Test Automation Infra": We focus on building infrastructure, tools and frameworks for the core WhatsApp platforms to allow engineers at WhatsApp to reliably and safely test their apps. I obtained a Ph.D. degree Cum Laude in Software Engineering at Delft University of Technology.

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### Web & Git

www.davidespadini.it  
github.com/ishepard  
linkedin/DavideSpadini  
twitter/davidespadini

## Programming



## Personal Skills



## Experience

- 2021 - → **Software Engineer** [Facebook Inc.](#)  
Whatsapp Test Automation Infra.
- 06/08 2020 **Software Engineer Intern** [Facebook Inc.](#)  
Software Engineer in the Sapienz Team of Facebook, London.
- 2016 - 2020 **PhD Researcher** [Software Improvement Group](#)  
Researcher on test code quality and maintenance, mining software repositories and code review.
- 2014 - 2015 **Websites Administrator** [University of Trento](#)  
Design and maintenance of all the university's websites
- 2013 - 2013 **Computer Science Teacher** [Scuola Easy](#)  
Computer Science teacher for a private company. I mainly taught Windows Office, Java and Social Networks.
- 2011 - 2013 **Web Developer** [ZeroSeiPlanet](#)  
Website creator and administrator.

## OSS Projects

- 2017 - → **PyDriller (Author)** <https://github.com/ishepard/pydriller>  
PyDriller is a Python framework that helps developers in analyzing Git repositories. With PyDriller you can easily extract information such as commits, modifications, diffs, and source codes. The main libraries used in Pydriller are GitPython and pygit2. I developed Pydriller in Python3.

## OS Preference

MacOS ★★★★★  
GNU/Linux ★★★★★  
Windows ★★★★★

## Languages

Italian ★★★★★  
English ★★★★★

## Education

- 2016–2020 **Ph.D. Cum Laude in Software Engineering** [Delft University of Technology / SIG](#)  
European project Seneca (<http://senecaproject.github.io>)  
Academic advisor: Dr. Alberto Bacchelli  
Industry advisor: Dr. Magiel Bruntink  
Research Interest:
  - Cloud-related testing practices
  - Software testing
  - Mocking
  - Code reviews
  - Collaborative testing
- 2013–2016 **Master's degree in Computer Science** [University of Trento](#)  
Thesis Title: The Wormhole Peer Sampling Service implemented over WebRTC  
Advisor: Prof. Alberto Montresor  
In collaboration with: Hive-Streaming (Stockholm, Sweden) <https://www.hivestreaming.com>  
Main Topics:
  - WebRTC
  - Distributed systems
  - Distributed algorithms
  - Network protocols
- 2009–2013 **Bachelor's degree in Computer Science** [University of Verona](#)  
Main Topics:
  - Software Design/Engineering
  - Database Management System
  - Unix scripting
  - Advanced programming
  - Advanced Networking
- 2005–2009 **High school leaving qualification in Computer Science** [ITIS G. Marconi](#)
  - Basic programming
  - Network protocols
- 2007 - 2008 **Internship in the Technical Support Office** [VOLKSWAGEN GROUP ITALIA S.P.A.](#)  
IT support to the employees.

## References

Alberto  
Bacchelli [bacchelli@ifi.uzh.ch](mailto:bacchelli@ifi.uzh.ch)  
University of Zurich - Professor

Arie Van  
Deursen [arie.vandeursen@tudelft.nl](mailto:arie.vandeursen@tudelft.nl)  
TU Delft - Head of the Department of Software Technology

Magiel  
Bruntink [m.bruntink@sig.eu](mailto:m.bruntink@sig.eu)  
Software Improvement Group - Head of Research

# Publications

## Peer-reviewed journal articles

- [1] **Mock objects for testing java systems**  
Davide Spadini, Maurício Aniche, Magiel Bruntink, Alberto Bacchelli  
*Empirical Software Engineering (2018) pp. 1–38. Springer US.*

## International peer-reviewed conference papers

- [0] **Investigating Severity Thresholds for Test Smells**  
Davide Spadini, Martin Schvarcbacher, Ana-Maria Oprescu, Magiel Bruntink, Alberto Bacchelli  
*Proceedings of the 17th International Conference on Mining Software Repositories*, 2020, Seoul, Republic of Korea.
- [1] **Primers or Reminders? The Effects of Existing Review Comments on Code Review**  
Davide Spadini, Gul Calikli, Alberto Bacchelli  
*Proceedings of the 42nd International Conference on Software Engineering (ICSE)*, 2020.
- [2] **Test-Driven Code Review: An Empirical Study**  
Davide Spadini, Fabio Palomba, Tobias Baum, Stefan Hanenberg, Magiel Bruntink, Alberto Bacchelli  
*Proceedings of the 41st ACM/IEEE International Conference on Software Engineering*, 2019.
- [3] **When testing meets code review: why and how developers review tests**  
Davide Spadini, Maurício Aniche, Margaret-Anne Storey, Magiel Bruntink, Alberto Bacchelli  
*2018 IEEE/ACM 40th International Conference on Software Engineering (ICSE)*, 2018.
- [4] **On the relation of test smells to software code quality**  
Davide Spadini, Fabio Palomba, Andy Zaidman, Magiel Bruntink, Alberto Bacchelli  
*2018 IEEE International Conference on Software Maintenance and Evolution (ICSME)*, 2018.
- [5] **Software analytics in continuous delivery: a case study on success factors**  
Hennie Huijgens, Davide Spadini, Dick Stevens, Niels Visser, Arie Deursen  
*Proceedings of the 12th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement*, 2018.
- [6] **PyDriller: Python framework for mining software repositories**  
Davide Spadini, Maurício Aniche, Alberto Bacchelli  
*Proceedings of the 2018 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, 2018.
- [7] **Information needs in contemporary code review**  
Luca Pascarella, Davide Spadini, Fabio Palomba, Magiel Bruntink, Alberto Bacchelli  
, 2018.
- [8] **Practices and tools for better software testing**  
Davide Spadini  
*Proceedings of the 2018 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, 2018.
- [9] **To mock or not to mock?: an empirical study on mocking practices**  
Davide Spadini, Maurício Aniche, Magiel Bruntink, Alberto Bacchelli  
*Proceedings of the 14th international conference on mining software repositories*, 2017.

## Honors & Awards

### Best Paper Award Honorable Mention

Information needs in contemporary code review

CSCW'18

## Certifications

2007

### CCNA 1

Cisco Certified Network Associate Exam

2008

### CCNA 2

Cisco Certified Network Associate Exam