

Davide Spadini

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Education

07/2016 → **PhD in Software Engineering**, *Delft University of Technology / SIG*, Delft, NL.

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 degree in Computer Science**, *University of Trento*, IT.

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 degree in Computer Science**, *University of Verona*, IT.

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*, Verona, IT.

- Basic programming
- Network protocols

Experience

Work Experience

- 2016 – → **PhD Researcher at Software Improvement Group**, *Amsterdam*, NL.
Researcher on test code quality and maintenance, mining software repositories and code review.
- 2014–2015 **University of Trento's websites administrator**, *University of Trento*, 38122 Trento (Italy).
Design and maintenance of all the university's websites
- 2013–2013 **Computer science teacher**, *Scuola Easy*, Udine, IT.
- 2011 – 2013 **Web Developer**, *ZeroSeiPlanet*, Verona, IT.

Internships

- Summers 2007–2008 **Technical Support Office**, *VOLKSWAGEN GROUP ITALIA S.P.A.*, Verona, IT.

Computer Skills

- Programming Languages Python, Java, Javascript, Typescript, C
- Operating System Mac OS X, Linux (Debian, Ubuntu), Windows
- Others WebRTC, HTML5, CSS, PHP, AJAX (jQuery), Drupal, Joomla, \LaTeX , TCP/IP Networking, Git (Version Control System), Swift

Communication skills

- team work In my career I have worked in various types of teams, from basketball teams to university teams. I participated to various challenges that required team work, like for example the 24 hours Hackaton in which I developed an application for the Pebble smart-watch. Furthermore, since 2006 I coached a lot of basketball teams.
- mediating skills I worked with young people, in all the university projects, but also with adults, when I worked for the “Scuola Easy” company as a Computer Science teacher.

Passions

I like all sports particularly basketball and volleyball. I love music, play guitar and electronics in general. I am curious, I read a lot of forums in order to keep me up with the latest technologies.

Publications

Conference papers

- [1] H. Huijgens, D. Spadini, D. Stevens, N. Visser, and A. van Deursen. Software analytics in continuous delivery: a case study on success factors. In *Proceedings of the 12th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement*, page 25. ACM, 2018.
- [2] L. Pascarella, D. Spadini, F. Palomba, M. Bruntink, and A. Bacchelli. Information needs in contemporary code review. volume 2, page 135. ACM, 2018.
- [3] D. Spadini. Practices and tools for better software testing. In *Proceedings of the 2018 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, pages 928–931. ACM, 2018.
- [4] D. Spadini, M. Aniche, and A. Bacchelli. Pydriller: Python framework for mining software repositories. In *Proceedings of the 2018 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, pages 908–911. ACM, 2018.
- [5] D. Spadini, M. Aniche, M. Bruntink, and A. Bacchelli. To mock or not to mock?: an empirical study on mocking practices. In *Proceedings of the 14th international conference on mining software repositories*, pages 402–412. IEEE Press, 2017.
- [6] D. Spadini, M. Aniche, M.-A. Storey, M. Bruntink, and A. Bacchelli. When testing meets code review: why and how developers review tests. In *2018 IEEE/ACM 40th International Conference on Software Engineering (ICSE)*, pages 677–687. IEEE, 2018.
- [7] D. Spadini, F. Palomba, T. Baum, S. Hanenberg, M. Bruntink, and A. Bacchelli. Test-driven code review: An empirical study. In *Proceedings of the 41st ACM/IEEE International Conference on Software Engineering*, 2019.
- [8] D. Spadini, F. Palomba, A. Zaidman, M. Bruntink, and A. Bacchelli. On the relation of test smells to software code quality. In *2018 IEEE International Conference on Software Maintenance and Evolution (ICSME)*, pages 1–12. IEEE, 2018.

Journal articles

- [9] D. Spadini, M. Aniche, M. Bruntink, and A. Bacchelli. Mock objects for testing java systems. *Empirical Software Engineering*, pages 1–38, 2018.

References

Person

- Alberto Bacchelli
- Arie van Deursen
- Magiel Bruntink

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- arie.vandeursen@tudelft.nl
- m.bruntink@sig.eu

Company & Job Title

- University of Zurich - Professor
- TU Delft - Head of the Department of Software Technology
- Software Improvement Group - Head of Research