



Davide Spadini

Software Engineer

About me

I am an Italian Software Engineer with a strong background in software development and testing. Currently, I am pursuing a Ph.D. in computer science at the Delft University of Technology (TU Delft), The Netherlands. Furthermore, my Ph.D. is joint together with a company, SIG (Software Improvement Group), where I work as a researcher.

I study Computer Science and Software Engineering since I was 14: I have a High school leaving qualification in Computer Science, Bachelor in Computer Science, Master in Software Engineering and (hopefully :) a Ph.D. in Software Engineering. I love SE!

I actively work on Open-Source projects: I am the author of **PyDriller**, a Python framework for Git. I am very proud of this project since it had quite some success: it has been downloaded 1,000 times per month since its release, and many universities/schools teach this tool in their MSR course!

Experience

- 2016 - → **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.
- 2013 - 2015 **Pebble Apps and Watchfaces**
I wrote many apps and watchfaces for the smartwatch Pebble. My main watchface was downloaded 3k times, while my TransmissionTorrent app was downloaded 2k times.
- 2017 - → **MockExtractor (Author)** <https://github.com/ishepard/MockExtractor>
MockExtractor extracts the list of mocked and non mocked dependencies in all test units (JUnit tests) of a given system.

Address

Vroujutterland 8a
Delft, The Netherlands

Tel & Skype

+31 (0)6 11411955
dade.spadi

Mail

spadini.davide@
gmail.com

Web & Git

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

Programming



Personal Skills



OS Preference

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

Languages

Italian ★★★★★
English ★★★★★

Education

- 07/2016 - → **Ph.D. 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
University of Zurich - Professor

Arie Van
Deursen arie.vandeursen@tudelft.nl
TU Delft - Head of the Department of Software Technology

Magiel
Bruntink m.bruntink@sig.eu
Software Improvement Group - Head of Research

Publications

Articles in peer-reviewed journals

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

Abstracts in peer-reviewed conferences

- [1] **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.
- [2] **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.
- [3] **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.
- [4] **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.
- [5] **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.
- [6] **Information needs in contemporary code review**
Luca Pascarella, Davide Spadini, Fabio Palomba, Magiel Bruntink, Alberto Bacchelli
, 2018.
- [7] **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.
- [8] **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 |