



Davide Spadini

Software Engineer & Researcher

About me

I am an Italian Software Engineer & Researcher with a strong background in software development and testing. Currently, I am pursuing a **Ph.D. in Software Engineering at 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 **actively work** on Open-Source projects: I am the author of **PyDriller**, a Python framework for Git. I am very proud of this project: it has been downloaded 6,000 times per month since its release, and many universities/schools teach this tool in their MSR course! Furthermore, PyDriller is used in some companies like SIG and Mozilla.

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. The main libraries used in Pydriller are GitPython and pygit2. I developed Pydriller in Python3.
- 2019 - → **GHLE (Author)** [Released in December 2019.](#)
GHLE is a Google Chrome extension for GitHub and GitLab. It provides new features such as links between test and production code, TDR, detailed code coverage information, and code navigation support. I developed GHLE using mainly Javascript, Typescript, Language Servers, HTML and CSS
- 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. I mainly developed them using Javascript, Express and MongoDB.

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Web & Git

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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

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

- [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