Benjamin Danglot

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https://danglotb.github.io/
27 years old

Education

Dec2016–Dec2019 **PhD**, *Université Lille*, Villeneuve d'Ascq, Spirals team, INRIA.
Conception, implementation and evaluation of new approaches to improve test suites in DevOps context and continuous integration. This thesis takes place in the European STAMP project with 4 academics partners and 6 industrial partners.
See `https://stamp-project.eu` for more informations.

2014–2016 **Master of Science**, *Université Lille 1*, Villeneuve d'Ascq, Speciality: Complex model, algorithm and data.
Machine learning, optimization, bio-informatics, data extraction

Experiences

Sep2016–Nov2016 **Research Engineer**, *INRIA*, Spirals team.
Development of Nopol, an automatic repair tool in Java, and its plugin in IDEA.

Mar2016–Aug2016 **Internship**, *INRIA*, Spirals team.
Exploring the Perturbability Envelop of Software: study the impact of modifying values during execution on the final output of programs. Potential application are security, optimization or improve the resiliency.

Teaching

Oct2015–May2018 **Part-time**, *Université Lille 1*.
M1: Building Distributed application;
L3: Oriented object conception;
1^{st} & 2^{nd} year: Support in IT and usage of new technologies.

Misc.

Sept2017–Present **President**, *Université Lille 1*, ADSL.
Organization of social events, promote the PhD.

Feb2017–Sept2017 **Active Member**, *Université Lille 1*, TILDA.
Organization of conferences for Phd students.

IT Skills

Languages	Java, JavaScript
Scripts	Shell, Python
Tools	Travis, Jenkins, Git, SQL, LaTeX, Docker
Methods	Agile, Pull-request based development, Open-source, Continuous integration, Grid5000

Publications

Oscar Luis Vera-Pérez, Benjamin Danglot, Martin Monperrus, and Benoit Baudry. A comprehensive study of pseudo-tested methods. *Empirical Software Engineering*, 24(3):1195–1225, Jun 2019.

Benjamin Danglot, Oscar Luis Vera-Pérez, Benoit Baudry, and Martin Monperrus. Automatic test improvement with dspot: a study with ten mature open-source projects. *Empirical Software Engineering*, Apr 2019.

Zhongxing Yu, Matias Martinez, Benjamin Danglot, Thomas Durieux, and Martin Monperrus. Alleviating patch overfitting with automatic test generation: a study of feasibility and effectiveness for the nopol repair system. *Empirical Software Engineering*, 24(1):33–67, Feb 2019.

Benjamin Danglot, Philippe Preux, Benoit Baudry, and Martin Monperrus. Correctness attraction: a study of stability of software behavior under runtime perturbation. *Empirical Software Engineering*, 23(4):2086–2119, Aug 2018.

Benjamin Danglot, Martin Monperrus, Walter Rudametkin, and Benoit Baudry. An approach and benchmark to detect behavioral changes of commits in continuous integration. *CoRR*, abs/1902.08482, 2019.

Benjamin Danglot, Oscar Vera-Perez, Zhongxing Yu, Andy Zaidman, Martin Monperrus, and Benoit Baudry. A snowballing literature study on test amplification. *Journal of Systems and Software*, page 110398, 2019.