

EXPERIENCE

Microsoft

Site Reliability Engineer

Dublin, Ireland

2018 - Present

Blackbox monitoring: Designed and implemented a prototype of blackbox monitoring for Azure SQL DB.

Production support: On-call duties for Azure SQL DB and for Azure Incident Response.

React-AppInsights: Implemented and maintained a javascript library to use Microsoft Application Insights in Single Page Applications based on React (80 stars on GitHub, 7k downloads/week).

Git/MSBuild migration: Migrated from TFSVC to Git, and modernized the build system of a large internal code repository used by 300+ engineers.

Azure Achievements: Implemented an [inner source](#) gamification tool to incentivize cross-team collaboration.

OSS Club: Co-founded the MS Ireland Open Source Club, an internal club for local staff passionate about open source. Organized 5+ internal and external meetups.

Sorbonne Universités

Postdoctoral researcher

Paris, France

2017 - 2018

Coordination of [RainbowFS](#): French research project on scalable distributed file systems with adaptive semantics.

AntidoteFS: Prototype of a near-POSIX distributed file system backed by [AntidoteDB](#), a transactional, causally consistent database. Developed deployment and benchmarking tools.

Served as shadow reviewer for [ACM EuroSys 2018](#) and as reviewer for [ACM PaPoC 2018](#).

Télécom ParisTech, Eurecom

Ph.D. in Computer Science

Nice, France

2014 - 2017

Thesis: Consistency in distributed storage systems: theoretical foundations with applications to cloud storage.

Teaching assistant: Distributed Algorithms, Eurecom (Prof. Marko Vukolić).

Qualcomm Innovation Fellowship: Finalist. 2014, Nuremberg (Germany).

Hybris: Multi- and hybrid-cloud library for fault-tolerant, strongly consistent storage.

Conver: Testing tool to verify implementations of non-transactional consistency models.

Reply S.p.A.

Software Engineer

Turin, Italy

2011 - 2013

MobilePay: Developed and operated the first and largest Italian platform for mobile payments.

On-call support duties. Led technical integration of third party billing backend platforms.

EDUCATION

Télécom ParisTech, Polytechnic University of Turin, Eurecom

Master of Science in Telematics Engineering, with honors

Italy & France

2008 - 2010

Polytechnic University of Turin

Bachelor of Science in Telematics Engineering, with honors

Turin, Italy

2005 - 2008

SELECTED PUBLICATIONS

- [1] P. VIOTTI, M. VUKOLIĆ [Consistency in Non-Transactional Distributed Storage Systems](#). 2016, *ACM Computing Surveys (CSUR)*, Volume 49, Issue 1. (rank: A*)
- [2] S. LIU, P. VIOTTI, C. CACHIN, V. QUÉMA, M. VUKOLIĆ [XFT: Practical Fault Tolerance Beyond Crashes](#). 2016, *USENIX Symposium on Operating Systems Design and Implementation (OSDI)*. (rank: A*)
- [3] P. VIOTTI, C. MEIKLEJOHN, M. VUKOLIĆ [Towards Property-Based Consistency Verification](#). 2016, *ACM Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC)*.
- [4] D. DOBRE, P. VIOTTI, M. VUKOLIĆ [Hybris: robust hybrid cloud storage](#). 2014, *ACM Symposium on Cloud Computing (SOCC)*. (acceptance rate: 24.1%)