Olivier Blanvillain

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Education

2022: PhD in Computer Science at EPFL

2015: EPFL Master's degree in Computer Science

2012: EPFL Bachelor's degree in Computer Science

2008: French Baccalaureate

Experience

2016-2022: Doctoral Assistant at EPFL in the Programming Methods Laboratory under the supervision of Prof. Martin Odersky.

- Co-designed, implemented and formalized match types, a new Scala feature for type-level programming.
- Co-designed and prototyped a dependently-typed Scala extension based on singleton types.
- Worked as a teaching assistant for the functional programming, and parallelism and concurrency courses. Supervised several students in their B.Sc. and M.Sc. thesis.

2015-2016: Software Engineer at MFG Labs (Paris, 14 months).

- Lead a team of 6 engineers working on an AdTech project.
- Worked with Scala, Play, PostgreSQL, Spark, Elasticsearch, AWS.

2013: Software Engineer Intern at CERN (Geneva, 6 months).

Publications

O. Blanvillain. Type-Safe Regular Expressions. In *Scala Symposium*, 2022 (SCALA'22).

O. Blanvillain, J. Brachthäuser, M. Kjaer, M. Odersky. Type-Level Programming with Match Types. In *Symposium on Principles of Programming Languages*, 2022 (POPL'22).

M. Odersky, O. Blanvillain, F. Liu, A. Biboudis, H. Miller, S. Stucki. Simplicitly: Foundations and Applications of Implicit Function Types. In *Symposium on Principles of Programming Languages*, 2018 (POPL'18).

O. Blanvillain, N. Kasioumis, V. Banos. BlogForever Crawler: Techniques and Algorithms to Harvest Modern Weblogs. In *Proceedings of the 4th International Conference on Web Intelligence, Mining and Semantics*, 2014 (WIMS'14).

Personal

Born on July 9, 1990 in Geneva, dual citizenship French-Swiss.

Languages: French (mother tongue), English (fluent), Spanish (B2).

Hobbies: Music (piano, drums and lots of listening), board games, cycling.