

Olivier Blanvillain

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EDUCATION	<p>2022: PhD in Computer Science at EPFL</p> <p>2015: EPFL Master's degree in Computer Science</p> <p>2012: EPFL Bachelor's degree in Computer Science</p>
EXPERIENCE	<p>2023–present: Software Engineer at Hudson River Trading (London)</p> <ul style="list-style-type: none">• Use C++ and Python to implement platforms and tools for algorithmic trading;• Develop scalable data storage and distribution systems for statistical analysis. <p>2016–2022: Doctoral Assistant at EPFL in the Programming Methods Laboratory under the supervision of Prof. Martin Odersky (Lausanne, 5.5 years)</p> <ul style="list-style-type: none">• Active member of the Scala 3 compiler team;• Co-designed, implemented and formalized a new language feature: match types;• Teaching assistant for Functional Programming and Parallelism & Concurrency. <p>2015–2016: Software Engineer at MFG Labs (Paris, 15 months)</p> <ul style="list-style-type: none">• Developed an Adtech product using Scala, PostgreSQL, Spark, Elasticsearch, AWS. <p>2013: Software Engineer Intern at CERN (Geneva, 6 months)</p>
PUBLICATIONS	<p>O. Blanvillain. “Type-Safe Regular Expressions”. In <i>Scala Symposium</i>, 2022 (SCALA'22)</p> <p>O. Blanvillain, J. Brachthäuser, M. Kjaer, M. Odersky. “Type-Level Programming with Match Types”. In <i>Symposium on Principles of Programming Languages</i>, 2022 (POPL'22)</p> <p>M. Odersky, O. Blanvillain, F. Liu, A. Biboudis, H. Miller, S. Stucki. “Simplicity: Foundations and Applications of Implicit Function Types”. In <i>Symposium on Principles of Programming Languages</i>, 2018 (POPL'18)</p> <p>O. Blanvillain, N. Kasioumis, V. Banos. “BlogForever Crawler: Techniques and Algorithms to Harvest Modern Weblogs”. In <i>Proceedings of the 4th International Conference on Web Intelligence, Mining and Semantics</i>, 2014 (WIMS'14).</p>
PERSONAL	<p>Born on July 9, 1990, dual French-Swiss citizenship.</p> <p>Languages: French (mother tongue), English (fluent), Spanish (B2).</p> <p>Hobbies: Music (piano, drums and lots of listening), board games, cycling.</p>