

Thomas Place | Curriculum Vitae

LaBRI Bordeaux University

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Research Positions

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| LaBRI <i>Maître de Conférences</i> | Bordeaux University, France 2012 – Today |
| Mathematics and Computer Science Institute <i>Post-Doctorate</i> | Warsaw University, Poland 2010 – 2012 |
| LSV <i>PHD Thesis</i> | ENS de Cachan, France 2007 – 2010 |
| INRIA Futurs <i>Master 2 Internship</i> | Saclay, France 2007 |
| Aachen University <i>Master 1 Internship</i> | Aachen, Germany 2006 |
| LaBRI <i>Bachelor's Degree Internship</i> | Bordeaux University, France 2005 |

Research Interests

Logic, Automata, Formal Languages and Algebra.

Education

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| LSV <i>PHD Thesis</i> | ENS de Cachan, France 2007 – 2010 |
| MPRI (Master Parisien de Recherche en Informatique) <i>Master in Computer Science</i> | ENS de Cachan, France 2005 – 2007 |
| ENS de Cachan <i>Bachelor's Degree in Computer Science</i> | ENS de Cachan, France 2004 – 2005 |

Phd Thesis

Title: *Decidable Characterizations for Tree Logics*

Supervisor: Luc Segoufin

Defense: Defended on 10 December 2010

Publications

Surveys.....

- [1] Thomas Place and Marc Zeitoun. The tale of the quantifier alternation hierarchy of first-order logic over words. *ACM SIGLOG News*, 2(3):4–17, 2015.

Conferences.....

- [2] Mikołaj Bojańczyk and Thomas Place. Regular languages of infinite trees that are boolean combinations of open sets. In *Proceedings of the 39th International Colloquium on Automata, Languages and Programming (ICALP'12)*, 2012.
- [3] Mikołaj Bojańczyk and Thomas Place. Toward model theory with data values. In *Proceedings of the 39th International Colloquium on Automata, Languages and Programming (ICALP'12)*, 2012.
- [4] Gaëlle Fontaine and Thomas Place. Classes of trees definable in the μ -calculus. In *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science (MFCS'10)*, pages 381–392, 2010.
- [5] Thomas Place. Characterization of logics over ranked tree languages. In *Proceedings of the 17th Annual EACSL Conference on Computer Science Logic (CSL'08)*, pages 401–415, 2008.
- [6] Thomas Place. Separating regular languages with two quantifier alternations. In *Proceedings of the 30th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS'15)*, pages 202–213, 2015.
- [7] Thomas Place and Luc Segoufin. A decidable characterization of locally testable tree languages. In *Proceedings of the 36th International Colloquium on Automata, Languages and Programming (ICALP'09)*, pages 285–296, 2009.
- [8] Thomas Place and Luc Segoufin. Deciding definability in $\text{FO}_2(<)$ (or XPath) on trees. In *Proceedings of the 25th Annual IEEE Symposium on Logic in Computer Science (LICS'10)*, pages 253–262, 2010.
- [9] Thomas Place, Lorijn van Rooijen, and Marc Zeitoun. Separating regular languages by locally testable and locally threshold testable languages. In *Proceedings of the 33rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'13*, pages 363–375, 2013.

- [10] Thomas Place, Lorijn van Rooijen, and Marc Zeitoun. Separating regular languages by piecewise testable and unambiguous languages. In *Proceedings of the 38th Symposium on Mathematical Foundations of Computer Science*, MFCS'13, pages 729–740, 2013.
- [11] Thomas Place and Marc Zeitoun. Going higher in the first-order quantifier alternation hierarchy on words. In *Proceedings of the 41st Colloquium on Automata, Languages, and Programming*, ICALP'14, pages 342–353, 2014.
- [12] Thomas Place and Marc Zeitoun. Separating regular languages with first-order logic. In *Proceedings of the Joint Meeting of the 23rd Conference on Computer Science Logic (CSL'14) and the 29th Symposium on Logic in Computer Science (LICS'14)*, pages 75:1–75:10, 2014.
- [13] Thomas Place and Marc Zeitoun. Separation and the successor relation. In *32nd International Symposium on Theoretical Aspects of Computer Science (STACS'2015)*, pages 662–675, 2015.

Journals.....

- [14] Thomas Place and Luc Segoufin. A decidable characterization of locally testable tree languages. *Logical Methods in Computer Science*, 7(4), 2011.
- [15] Thomas Place and Luc Segoufin. Deciding definability in $\text{fo2}(<h, <v)$ on trees. *Logical Methods in Computer Science*, 11(3), 2015.
- [16] Thomas Place, Lorijn van Rooijen, and Marc Zeitoun. On separation by locally testable and locally threshold testable languages. *Logical Methods in Computer Science*, 10(3), 2014.