

Pierre BOURHIS

Citizenship French
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Research interests : Database Theory, Web Data Management, Hidden Web, (Data-centric) Workflows, XML

Positions

October 2013 **CNRS Junior Researcher** at LIFL University Lille 1
September 2013 **Researcher Assistant** at Webdam, INRIA Saclay – Ile-de-France
April 2012 - **Research Scholar**
August 2013 at Universite College, Oxford University
September 2011 - **Researcher Assistant**
August 2013 at the Department of Computer Science at Oxford University
March 2011 - **Post-doc(Academic Visitor)**
August 2011 at the Department of Computer Science at Oxford University
2008-2011 **PhD Candidate** at University Paris South XI and at INRIA Saclay – Île-de-France
Funded by a scholarship from ENS Cachan
2008-2011 **Teacher Assistant** at University Paris South XI
2004-2008 **Student of École Normale Supérieure de Cachan**
Top School for training teachers and researchers through a very selective entrance competition including a scholarship of four years
Department of Computer Science and Telecoms

Education

2007-2011 **PhD** at Université Paris South XI
Supervisor : Prof. Serge Abiteboul
Title : On the dynamics of active document for distributed data management
2005-2007 **Master of Research in Computer Science, “ Computer Science and Telecom”** at ENS Cachan and at University Rennes 1
2004-2005 **BA in Computer Science** at ENS Cachan and at University Rennes 1
2004-2007 **Magistère d’Informatique et Télécommunication** *Diploma in three years* at ENS Cachan
2001-2004 **Preparatory Class in Maths and Physics** at Lycée Louis Le Grand
The most selective course training undergraduate students for enrolment in one of the “Grande Ecole”

Internships

February-May 2010	Internship at University of California San Diego, USA <i>supervised by Prof. Victor Vianu</i> <i>Title : Comparing Workflow specification languages : A Matter of Views</i>
February-July 2007	Master Thesis at Inria Futurs, Saclay France <i>supervised by Prof. Serge Abiteboul</i> <i>Title : Incremental view maintenance for active documents</i>
Summer 2006 3 months	Summer internship at University of Duisburg-Essen and at University of Stuttgart, Germany <i>supervised by Prof. Barbara König, Prof. Javier Esparza and Dr. Stefan Schwoon.</i> <i>Title : Extension of the unfolding tool Mole for diagnostic including the implementation of pruning techniques.</i>
Summer 2005 8 weeks	Summer internship at IRISA -INRIA Rennes, France <i>supervised by Dr. Thomas Chatain and Prof. Claude Jard.</i> <i>Title : Temporal Diagnostic in distributed systems by unfolding of Timed Petri Nets.</i>

Teaching Experience

2012	Tutor at the Department of Computer Science at University of Oxford <i>One group</i>
2008-2011	Teacher Assistant at University Paris South XI <i>64 hours per year</i>
2006-2005	Introduction to Mathematica Preparatory School in sciences, Lycée Joliot Curie Rennes

Professional Service

Member of projects :

- 2007-2009 ANR-funded project DocFlow (French Project),
- 2009 - 2011 ERC-funded project Webdam (European Project),
- 2011 - 2013 EPSRC-funded project WebPlan (British Project)
- 2013 ERC-funded project Webdam (European Project)
- 2014 ANR funded project Aggreg (French Project)

Publications

International Journals :

M. Benedikt, P. Bourhis and C. Ley *Querying schemas with access restrictions*, Proceedings of the VLDB Endowment (PVLDB) 2012

S. Abiteboul, P. Bourhis and V. Vianu *Comparing Workflow languages : A Matter of Views*, ACM Transactions on Database systems (TODS) 2012.

International Conferences :

P. Bourhis, M. Morak and A. Pieris *Towards Efficient Reasoning under Guarded-based Disjunctive Existential Rules*, MFCS 2014

P. Bourhis, M. Morak, A. Pieris *The Impact of Disjunction on Query Answering Under Guarded-Based Existential Rules.*, International Joint Conference on Artificial Intelligence (IJCAI) Pékin Chine, 2013

P. Bourhis, G. Puppis and C. Riveros *Which DTDs are streaming repairable ?*, International Conference on Database Theory (ICDT) 2013.

V. Barany, M. Benfikt and P. Bourhis *Access Patterns and Integrity Constraints Revisited*, International Conference on Database Theory (ICDT) 2013.

S. Abiteboul, P. Bourhis, A. Muscholl and Z. Wu *Recursive queries on trees and data trees*, International Conference on Database Theory (ICDT) 2013.

M. Benedikt, P. Bourhis and P. Senellart *Monadic Datalog Containment*, International Colloquium on Automata, Languages and Programming (ICALP) 2012

S. Abiteboul, P. Bourhis and V. Vianu *Highly Expressive Query Languages for Unordered Data Trees*, International Conference on Database Theory (ICDT) 2012.

S. Abiteboul, P. Bourhis and V. Vianu *Comparing Workflow languages : A Matter of Views*, International Conference on Database Theory (ICDT) 2011.

S. Abiteboul, P. Bourhis, A. Galland and B. Marinoiu (invited paper) *The AXML Artifact Model*, International Symposium on Temporal Representation and Reasoning (TIME) 2009.

S. Abiteboul, P. Bourhis and B. Marinoiu *Satisfiability and Relevance for Active Documents*, ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS) 2009.

S. Abiteboul, P. Bourhis and B. Marinoiu *Efficient Maintenance Techniques for Views over Active Documents*, International Conference on Extending Database Technology (EDBT) 2009.

Demonstrations :

S. Abiteboul, B. Marinoiu and P. Bourhis *Distributed Monitoring of Peer-to-Peer Systems* (demonstration paper), International Conference on Data Engineering (ICDE) 2008.

S. Abiteboul, P. Bourhis, A. Galland and B. Marinoiu *Axart-Enabling Collaborative Work with AXML Artifacts*(demonstration paper), Proceedings of Very Large Database Endowment 2010.

National Journals :

C. Jard, T. Chatain and P. Bourhis. *Diagnostic temporel dans les systèmes répartis à l'aide des dépliages des réseaux de Petri*. Journal Européen des Systèmes Automatisés (JESA) 2005.

National Conferences :

S. Abiteboul, P. Bourhis and B. Marinoiu. *Incremental View Maintenance of Active Documents*. Bases de Données Avancées (BDA) 2007.

C. Jard, T. Chatain and P. Bourhis. *Diagnostic dans les systèmes répartis : l'aide des dépliages des réseaux de Petri*. Modélisation des systèmes répartis. Octobre 2005.

References

- Serge Abiteboul
Senior Researcher, Member of the French Academy of Sciences
INRIA Saclay – Île-de-France
serge.abiteboul@inria.fr
- Michael Benedikt
Professor
Department of Computer Science, University of Oxford
Michael.Benedikt@cs.ox.ac.uk

- Georg Gottlob
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Department of Computer Science, University of Oxford
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- Victor Vianu
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