

# EVGENY KHARLAMOV



**PhD Candidate**

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**Date of Birth:** 13 July 1982

**Marital Status:** Single

**Nationality:** Russian

**Driver's License:** B

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## RESEARCH INTERESTS

My research interests focus around theoretical aspects of database management systems and the Semantic side of the World Wide Web. I focus is on integration, aggregation, and updates of incomplete, uncertain and probabilistic data in different contexts. Topics of my interests are:

- Data integration
- Data exchange
- Peer-to-Peer data management
- Semantic (Web) technologies
- Incomplete and uncertain data
- Probabilistic data
- Aggregate query answering

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## EDUCATION

01/2007 – present

**PhD candidate**, Faculty of Computer Science  
Free University of Bozen-Bolzano, Italy

Supervisor: Werner Nutt

10/2004 – 10/2006

(European) **MSc** in Computer Science.

Joint MSs program between Dresden University of Thechnology and  
Free University of Bozen-Bolzano.

GPA at TU Dresden: **1.7, top 7 %** among MS graduates of 2006,

GPA at FUB: **106** out of 109, **top 9 %** among MS graduates of 2006.

Specialization: Computational Logic

Supervisor: Diego Calvanese

09/1999 – 06/2003

**BSc** in Mathematics. **1<sup>st</sup> Class with Honors**

Novosibirsk State University, Russia, GPA **4.95** out of 5.0, **top 3 %**

Specialization: Applied Mathematics and Informatics

09/1989 – 06/1999

Municipal Elementary-Secondary-High School №21. **1<sup>st</sup> Class**

Novosibirsk, Russia

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## RELEVANT COURSES TAKEN DURING MS AND PHD STUDIES

- Semantic Web
- Data Mining
- Data Warehouses
- Digital Libraries
- Recommender Systems
- Computational Linguistics
- Knowledge Bases and Databases
- Knowledge Representation and Reasoning
- Description/First Order/Temporal Logics

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## WORK EXPERIENCE

- 01/2009 – present      **Webdam** project funded by European Research Council (ERC) under FP7. Principal investigator: Serge Abiteboul.  
Project goals:
- Define a formal model for Web data management
- 12/2008 – present      Research **Internship** at Gemo team, **INRIA** Saclay, France, with **Serge Abiteboul**.  
Research duties:
- Aggregate queries over probabilistic XML
  - Aggregate queries over active XML
- 03/2007 – 07/2007      **Teaching Assistant** for “Foundations of Databases” course at **Free University of Bozen-Bolzano**, Bolzano, Italy. I did:
- Teaching labs for 20 students
- 02/2007 – 06/2007      **Recruiting** of masters students for Computer Science Faculty, **Promotion** of Free University of Bozen-Bolzano (FUB) in Russia.  
What I did:
- Organized an advertisement campaign of FUB in Novosibirsk
  - Made presentations at 2 universities
  - Interviewed potential MS students, collected their documents
- 08/2004 – 09/2004      A the end 5 out of 25 candidates were selected and came to FUB  
**Lecturer and Lab Assistant** of “Logic Programming” course at Mathematical and Computer Science **High School** of Novosibirsk State University, Novosibirsk, Russia. I did:
- Frontal lecturing of 15 students
  - Teaching labs for 15 students
- 09/2003 – 12/2005      **Engineer** at Institute of Discrete Mathematics and Informatics, Novosibirsk, Russia. My duties:
- Data mining for Bioinformatics
  - Web design

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## SKILLS

- Semantic Web:      RDF, RDFS, OWL, OWL-2, Semantic rules FLORA-2, Protege;  
Programming:      Java, Pascal, Prolog,  
                         HTML, XML, DTD, XML Schema, XHTML, XSLT;  
Modeling:          ER, UML  
Databases:        MySQL, PostgreSQL  
                         SQL, Datalog, XPath, XQuery;  
Software:         Altova XMLSpy, Joomla, MS Office, LaTeX,  
                         Adobe Photoshop, Pagemaker, Dreamweaver, Frontpage
- Languages:        • Russian – native            • English – fluent            • German – basic
- Personal Skills:    • Multicultural awareness      • Logical approach to problem solving  
                         • Analytical mind                • Adaptability and Pro-activeness  
                         • Team working                  • Interpersonal and communication skills

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## AWARDS

- **Best Thesis Award from IBM** (Summer 2008)  
“IBM & KRDB” awards for the best thesis on a Computational Logic related topic by the IBM Center for Advanced Studies in Rome
- **European Union’s Erasmus Mundus Scholarship** (2004-2006)  
A cooperation and mobility program in the field of higher education Scholarship for European MS Program in Computational Logic
- **Bozen-Bolzano Excellent Student’s Scholarship** (2006)  
A one-off stipend given by the province of Bozen-Bolzano to outstanding students of the Free University of Bozen-Bolzano
- **Novosibirsk State University’s Stipend for Top Students**  
A one-off stipend for outstanding students of the Mathematical Department. Held **three years**: 2001, 2002, 2003

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## TALKS GIVEN

- Feb. 10, 09, 08 “ EMCL experience and PhD opportunities”. Alumni talk.  
*Students workshop* of European master students in Computation Logic, Lisbon and Madrid
- Nov. 09 “Probabilistic Data Management”.  
*KRDB seminar*. Bolzano, Italy
- Nov. 09 “Aggregating Discrete and Continuous Probabilistic XML”.  
*The University of Honk-Kong*. HK, China
- June 09 “Modeling and querying uncertain data with probabilistic XML ”.  
*Data Ring* project talk. Nantes, France
- Dec. 08 “Incomplete information in information integration”.  
Gemo seminar, *INRIA Saclay*, Paris, France
- Sept. 08 “Different models of incomplete information, their combinations and how they affect data integration”.  
*KRDB seminar*. Bolzano, Italy
- Sept. 08 “Incomplete information in information integration”.  
*VLDB PhD workshop*. Auckland, NZ
- May 07 “Integrating incomplete data sources”.  
*KRDB PhD workshop*. Bolzano, Italy
- Mar. 07 “Master programs in CS at FUB”. Promoting MS programs of CS Faculty at UniBz and *recruiting of MS students* from Novosibirsk SU, Novosibirsk State TU. Novosibirsk, Russia.
- Feb. 07 “Proof theory and calculus for the Description Logic DL-Lite”.  
*Students workshop* of European Masters in Computation Logic. Bolzano, Italy

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## PARTICIPATION IN SUMMER SCHOOLS

- EDBT SS 07 8th Summer School on Database Technologies for Novel Applications.  
Free University of Bozen-Bolzano, Bozen-Bolzano, Italy
- ESSLLI 07 19th European Summer School in Logic, Language and Information.  
Trinity College, Dublin, Ireland
- DASI 06 PhD School on Data and Service Integration. Bertinolo, Italy

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## PARTICIPATION IN SUMMER SCHOOLS (CONTINUATION)

BIT 06	PhD Summer School in Data Management. Brixen-Bressanone, Italy
ICLL SS 05	Logic-based Knowledge Representation. TU Dresden, Dresden, Germany
Marktoberdorf 05	Logical Aspects of Secure Computer Systems. TU Muenchen. Marktoberdorf, Germany
MCSS 04	"Mathematics and Programming: from Theory to Practice". "Математика и программирование: от теории к практике". МГУ (Moscow SU), Microsoft Research (Cambridge). Moscow, Russia

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## CONFERENCE PAPER REVIEWING

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| 2009 | <ul style="list-style-type: none"><li>• World Wide Web Conference (WWW), 2010</li><li>• 26th International Conference on Data Engineering (ICDE), 2010</li></ul> |
| 2008 | <ul style="list-style-type: none"><li>• 17th International Conference on Cooperative Information Systems (CoopIS),<br/>OTM 2009 Federated Conferences</li></ul>  |

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## DISSERTATIONS

MS Thesis: *Model Theory and Calculus for the Description Logic DL-Lite*  
Faculty of Computer Science, Free University of Bozen-Bolzano (2006)  
Available at <http://www.inf.unibz.it/~kharlamov/>

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## PUBLICATIONS

### REVIEWED PAPERS

- |      |  |
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| 2010 | <ul style="list-style-type: none"><li>• Kharlamov E., Nutt W., Senellart P.:<br/><i>Updating Probabilistic XML</i>.<br/>XML Updates workshop, International Conference on Extended<br/>Database Technologies (<b>EDBT</b>), Lausanne, Switzerland</li><li>• Abiteboul S., Chan H., Kharlamov E., Nutt W., Senellart P.:<br/><i>Aggregating Discrete and Continuous Probabilistic XML</i>.<br/>International Conference on Database Theory (<b>ICDT</b>), Lausanne, Switzerland</li></ul> |
| 2009 | <ul style="list-style-type: none"><li>• Abiteboul S., Chan H., Kharlamov E., Nutt W., Senellart P.:<br/><i>Agrégation de Documents XML Probabilistes</i>.<br/>French national database conference (<b>BDA</b>), Namur, Belgium</li></ul>   |
| 2008 | <ul style="list-style-type: none"><li>• Calvanese D., Kharlamov E., Nutt W., Thorne C.:<br/><i>Aggregate Queries over Ontologies.</i>, 2-nd International Workshop on Ontologies<br/>and Information Systems for the Semantic Web (<b>ONISW</b>), Napa-Valley, USA</li><li>• Kharlamov E.:<br/><i>Incomplete Information in Information Integration</i>.<br/>PhD Workshop, In Proc. of 2008 Very Large Databases (<b>PVLDB</b>), Auck. NZ</li></ul>                                      |
| 2007 | <ul style="list-style-type: none"><li>• Calvanese D., Kharlamov E., Nutt W.:<br/><i>A Proof Theory for DL-Lite</i>.<br/>In Proc. of 2007 Description Logic Workshop (<b>DL</b>), Brixen, Italy</li></ul>   |
| 2005 | <ul style="list-style-type: none"><li>• Demenkov P., Kharlamov, E.:<br/><i>Discrete Modeling of Structure Preserving Mutations in Proteins</i>.<br/>In Proc. of 2005 Asian Logic Conference (<b>ALC</b>), Novosibirsk, Russia</li></ul>  |

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## PUBLICATIONS (CONTINUATION)

### TECHNICAL REPORTS

- 2005      • Kharlamov, E.: *An Approach for Prediction: Formalization and Analysis*  
(in Russian: Концепция Предсказания: Формализация и Сравнительный  
Анализ) Siberian Branch of the Russian Academy of Sciences (2005)