ANDREAS PIERIS

Vienna University of Technology
Institute of Information Systems, Database and Artificial Intelligence Group
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EDUCATION

10/2007 – 08/2011 **D.Phil. in Computer Science**
Department of Computer Science, University of Oxford
(associated with Keble College)
Thesis: Ontological Query Answering: New Languages, Algorithms and Complexity
Supervisor: Professor Georg Gottlob

10/2006 – 09/2007 **M.Sc. in Mathematics and Foundations of Computer Science – Distinction**
Mathematical Institute, University of Oxford
(associated with Keble College)
Thesis: Data Exchange and Schema Mappings
Supervisor: Professor Georg Gottlob

09/2003 – 06/2006 **B.Sc. in Computer Science – Distinction (GPA: 9.06/10)**
Department of Computer Science, University of Cyprus
Thesis: The Fully Mixed Nash Equilibrium Conjecture
Supervisor: Professor Marios Mavronicolas

EMPLOYMENT HISTORY

11/2014 – present **University Assistant (Postdoctoral Researcher)**
Institute of Information Systems, Vienna University of Technology

09/2011 – 10/2014 **Research Assistant (Postdoctoral Researcher)**
Department of Computer Science, University of Oxford

AWARDS & HONOURS

10/2007 – 03/2011 Doctoral scholarship funded by the EPSRC Grant EP/E010865/1 – Schema Mappings and Automated Services for Data Integration and Exchange

09/2007 M.Sc. awarded with distinction, University of Oxford

06/2006 B.Sc. awarded with distinction, University of Cyprus

06/2006 Award for the best academic performance (2003 – 2006), University of Cyprus

06/2006 Award for the highest GPA among all graduates (2005 – 2006), University of Cyprus

RESEARCH INTERESTS

- Database Theory and Query Languages
- Knowledge Representation and Reasoning
- Complexity of Reasoning
- Querying the Semantic Web
- Logic in Computer Science

TEACHING INTERESTS

- Database Systems
- Semistructured Data
- Theory of Data and Knowledge Bases
- Knowledge Representation and Reasoning
- Complexity Theory
- Theory of Computation

INVITED TALKS & TUTORIALS

- Polynomial Rewritings for Linear Existential Rules, 2nd Summer Workshop of the Center for Semantic Web Research, Santiago, Chile, 2016
- Ontology-Based Query Answering via Rule-Based Languages, 2nd Summer School on Efficient Extraction of Semantic Web Data, Santiago, Chile, 2016
- From Classical to Consistent Query Answering Under Existential Rules, Workshop on Ontologies and Logic Programming for Query Answering (ONTOLP 2015 – workshop of IJCAI 2015), Buenos Aires, Argentina
- Default Negation for Datalog+/-, 3rd Workshop on Grounding, Transforming, and Modularizing Theories with Variables (GTTV 2015 – workshop of LPNMR 2015), Lexington, USA
- Recent Advances in Datalog+/-, 11th Reasoning Web Summer School (RW 2015), Berlin, Germany
- Polynomial Combined Rewritings for Existential Rules, Dagstuhl Seminar on Querying and Reasoning under Expressive Constraints, Schloss Dagstuhl, Germany, 2014
- Datalog and its Extensions for Knowledge Representation and Reasoning, 2nd AMW School on Data Management (AMWS 2014), Cartagena, Colombia
- Datalog and its Extensions for Semantic Web Databases, 8th Reasoning Web Summer School (RW 2012), Vienna, Austria

RECENT TALKS (partial list)

- Default Negation for Non-Guarded Existential Rules, PODS 2015, Melbourne, Australia
- Chase Termination for Guarded Existential Rules, PODS 2015, Melbourne, Australia
- Polynomial Rewritings for Linear Existential Rules, IJCAI 2015, Buenos Aires, Argentina
- Beyond SPARQL under OWL 2 QL Entailment Regimes: Rules to the Rescue, IJCAI 2015, Buenos Aires, Argentina
- From Classical to Consistent Query Answering under Existential Rules, AAAI 2015, Texas, USA
- Polynomial Combined Rewritings for Linear Existential Rules and DL-Lite with n-ary Relations, DL 2015, Athens, Greece
- Polynomial Combined Rewritings for Existential Rules, KR 2014, Vienna, Austria
- Expressive Languages for Querying the Semantic Web, AMW 2014, Cartagena, Colombia
- Querying the Guarded Fragment with Transitivity, ICALP 2013, Riga, Latvia
- Combining Decidability Paradigms for Existential Rules, ICLP 2013, Istanbul, Turkey

PROFESSIONAL ACTIVITIES

PC member for the following conferences and workshops:

- Symposium on Principles of Database Systems (PODS): 2017
- International Conference on Database Theory (ICDT): 2017
- International Joint Conference on Artificial Intelligence (IJCAI): 2015, 2016
- AAAI Conference on Artificial Intelligence (AAAI): 2013, 2015, 2016

- International Conference on Principles of Knowledge Representation and Reasoning (KR): 2016
- International Web Rule Symposium (RuleML): 2015, 2016
- Alberto Mendelzon International Workshop on Foundations of Data Management (AMW): 2015
- International Conference on Web Reasoning and Rule Systems (RR): 2014
- International Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion (RCRA): 2014
- International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM): 2013

Reviewer for the following journals:

- ACM Transactions on Database Systems
- Artificial Intelligence
- Journal of Computer and System Sciences
- Journal of Web Semantics
- Journal on Data Semantics
- Transactions on Knowledge and Data Engineering
- The Computer Journal

External reviewer for the following conferences and workshops (partial list):

- Symposium on Principles of Database Systems (PODS): 2015, 2016
- International Workshop on Description Logics (DL): 2016
- Annual ACM/IEEE Symposium on Logic in Computer Science (LICS): 2015
- International Conference on Principles of Knowledge Representation and Reasoning (KR): 2014
- International Colloquium on Automata, Languages and Programming (ICALP): 2014
- IEEE International Conference on Tools with Artificial Intelligence (ICTAI): 2014
- International Conference on Logic Programming and Non-monotonic Reasoning (LPNMR): 2013
- International Conference on Web Reasoning and Rule Systems (RR): 2013
- Reasoning Web Summer School (RW): 2013
- British National Conference on Databases (BNCOD): 2013

───── TEACHING ACTIVITIES

2015/2016   **Semistructured Data**
Undergraduate course, Vienna University of Technology

2016   **Ontology-Based Query Answering via Rule-Based Languages**
2nd Summer School on Efficient Extraction of Semantic Web Data

2015   **Ontological Conjunctive Query Answering via Existential Rules**
(with Michaël Thomazo)
27th European Summer School in Logic, Language and Information (ESSLLI 2015)

2014   **Datalog and its Extensions for Knowledge Representation and Reasoning**
2nd AMW School on Data Management (AMWS 2014)

2012   **Datalog and its Extensions for Semantic Web Databases**
(with Georg Gottlob)
8th Reasoning Web Summer School (RW 2012)