

Meghyn Bienvenu

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Academic Positions

- 2010-... **CNRS Research Scientist** (chargée de recherche)
Laboratoire de Recherche en Informatique, Université Paris-Sud, Orsay, France
- 2009-2010 **Postdoctoral Fellow**
Department of Computer Science, Universität Bremen, Bremen, Germany
ADVISOR: Carsten Lutz

Education

- 2009 **PhD in Artificial Intelligence**
Université Paul Sabatier, Toulouse, France
TITLE: Consequence-finding in Modal Logic
ADVISORS: Andreas Herzig, Jérôme Lang, Jérôme Mengin
AFLA Thesis Prize in Artificial Intelligence
- 2006 **Master's in Artificial Intelligence**
Université Paul Sabatier, Toulouse, France
Ranked 1st, mention "Très Bien"
- 2004 **Honour's Bachelor of Science**
University of Toronto, Toronto, Canada
PROGRAMS: Mathematics and Artificial Intelligence
Graduated with High Distinction

Research

RESEARCH TOPICS

My research addresses different problems related to reasoning with knowledge encoded using logical formalisms. Currently, my work mainly focuses on description logics – a family of decidable fragments of first-order logic well-suited for representing ontological information.

Knowledge representation & reasoning • Description logics • Ontologies • Query answering • Complexity of reasoning

RECENT PUBLICATIONS

M. Bienvenu, C. Lutz, F. Wolter: First-Order Rewritability of Atomic Queries in Horn Description Logics. *Proc. of the 23rd International Joint Conference on Artificial Intelligence (IJCAI)*, 2013.

M. Bienvenu, M. Ortiz, M. Simkus: Conjunctive Regular Path Queries in Lightweight Description

Logics. *Proc. of the 23rd International Joint Conference on Artificial Intelligence (IJCAI)*, 2013.

M. Bienvenu, M. Ortiz, M. Simkus, G. Xiao: Tractable Queries for Lightweight Description Logics. *Proc. of the 23rd International Joint Conference on Artificial Intelligence (IJCAI)*, 2013.

M. Bienvenu, R. Rosati: Tractable Approximations of Consistent Query Answering for Robust Ontology-based Data Access. *Proc. of the 23rd International Joint Conference on Artificial Intelligence (IJCAI)*, 2013.

M. Bienvenu, B. ten Cate, C. Lutz, F. Wolter: Ontology-based Data Access: A Study through Disjunctive Datalog, CSP, and MMSNP. *Proc. of the 32nd ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS)*: 213-224, 2013.

M. Bienvenu: On the Complexity of Consistent Query Answering in the Presence of Simple Ontologies. *Proc. of the 26th AAAI Conference on Artificial Intelligence (AAAI)*, 2012.

M. Bienvenu, C. Lutz, F. Wolter: Query Containment in Description Logics Reconsidered. *Proc. of 13th International Conference on Principles of Knowledge Representation and Reasoning (KR)*, 2012.

RESEARCH GRANTS

2013-2016 “Jeunes Chercheurs Jeunes Chercheuses” research grant (260,312€ over 48 months), Agence National de Recherche (ANR)

2011-2012 “Attractivité” starting grant (13,000€ over 12 months), Université Paris-Sud

RESEARCH VISITS

- Technische Universität Dresden: three-month internship (April - June 2008) in Franz Baader’s group
- Universität Bremen: three visits in 2010, 2011, and 2012 (combined duration of one month), for collaboration with Carsten Lutz
- Technische Universität Wien: multiple visits in 2011, 2012, and 2013 (combined duration of three months), for collaboration with Magdalena Ortiz and Mantas Simkus
- Sapienza Università di Roma: one-week visit in June 2012 for collaboration with Riccardo Rosati

Professional Service

SCIENTIFIC COMMITTEES

2014 **Program committee co-chair** of 27th International Workshop on Description Logics (DL)

2009-2012 **Steering committee member** for the International Workshop on Description Logics (DL)

Program committee member for the following events:

International Conference on Principles of Knowledge Representation & Reasoning (KR): 2012, 2014

International Joint Conference of Artificial Intelligence (IJCAI): 2011 (senior PC), 2013

International Conference on Web Reasoning & Rule Systems (RR): 2013

European Conference on Artificial Intelligence (ECAI): 2010, 2012

AAAI Conference on Artificial Intelligence (AAAI): 2010, 2011

International Workshop on Description Logics (DL): 2009-2013

International Workshop on OWL: Experiences & Directions (OWLED): 2012, 2013

JOURNAL REVIEWING

Journal of Web Semantics (JWS): 2009, 2014 • Journal of Artificial Intelligence Research (JAIR): 2011, 2013 • Artificial Intelligence Journal (AIJ): 2011, 2012 • Transactions on Database Systems (TODS): 2012 • Journal of Applied Logic (JAL): 2012 • Journal of Automated Reasoning (JAR): 2009 • Journal of the IGPL: 2009

CONFERENCE REVIEWING

International Conference on Database Theory (ICDT): 2014 • European Conference on Logics in Artificial Intelligence (JELIA): 2012 • International Semantic Web Conference (ISWC): 2011 • International Conference on Tools for Artificial Intelligence (ICTAI): 2011 • International Conference on Principles of Knowledge Representation & Reasoning (KR): 2008, 2010 • International Conference on Logic Programming and Automated Reasoning (LPAR): 2008 • International Conference on Web Reasoning & Rule Systems (RR): 2008 • AAI Conference on Artificial Intelligence (AAAI): 2008

OTHER ACTIVITIES

External member of recruitment committees for “Maître de conférences” positions at Université de Montpellier 2 (2012 & 2013) and Université de Technologie de Compiègne (2012)

Coordination of computer science activities for the “Fête de Science” (annual science festival) at *Université Paris-Sud*: 2012, 2013

Teaching

- 2010-2013 **Modèles de Raisonnement Distribué**, *Université Paris-Sud, Orsay, France*
Graduate course, 18 hours of lectures (over 3 years)
- 2010 **Algorithmic Game Theory**, *Universität Bremen, Bremen, Germany*
Graduate course, 28 hours of lectures
- 2009-2010 **Automata on Infinite Words and Trees**, *Universität Bremen, Bremen, Germany*
Graduate course, 56 hours of lectures
- 2006-2008 **Introduction à l'Intelligence Artificielle**, *Université d'Aix-Marseille, Marseille, France*
Third-year undergraduate course, instructor for two sessions (online course)

PhD thesis supervision

- 2013- **Camille Bourgaux** (joint supervision with F. Goasdoué)
TOPIC: “Robust algorithms for ontology-based data access”