GUOHUI XIAO

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1 **PERSONAL DATA.** Born in Heilongjiang, China in 1985. Married, 1 child. Citizenship: Chinese. Languages: Chinese (mother tongue), English (C1 - IELTS 8.0), Italian (B1)

2 **EDUCATION.**

01/2014, Dr. techn. in Computer Science, Vienna University of Technology, Vienna, Austria. Promote with Distinction.

07/2010, Master of Science in Applied Mathematics, Peking University, Beijing, China.

07/2007, Bachelor of Science in Applied Mathematics, Peking University, Beijing, China.

3 **PROFESSIONAL EXPERIENCE.**

04/2019 – Today Chief Scientist and Co-Founder at Ontopic S.r.l., Bolzano, Italy.

12/2014 – Today Assistant Professor (RTD-a) at Free University of Bozen-Bolzano, Bolzano, Italy.

07/2013 – 11/2014 Research Assistant (Post-doctoral researcher) at Free University of Bozen-Bolzano, Bolzano, Italy.

12/2009 – 12/2012 Research Assistant (Pre-doctoral researcher) at Vienna University of Technology, Vienna, Austria.

4 **RESEARCH SUMMARY.**

Guohui Xiao is an assistant professor at the KRDB Research Centre for Knowledge and Data, Free University of Bozen-Bolzano, Italy. His main research interests include knowledge representation, description logics, semantic Web, database theory, and ontology-based data access (OBDA) / virtual knowledge graphs (VKG). He is leading the development team on the state-of-the-art VKG system *Ontop*.

In these areas, he authored more than 100 publications that appeared in top-tier, international journals, conferences, and workshops, such as JAIR, SWJ, JWS, IJCAI, AAAI, KR, ICDT, EDBT, ISWC, CIKM, and ECAI. His research excellence is testified also by his bibliometric data: his current h-index is 20, and his i-10 index 36 (source: Google Scholar, 25 July 2019).

5 **ENTREPRENEUR.** He is a co-founder of the Ontopic startup, whose mission is to bring the VKG technology to industry. Ontopic is the first spin-off of Free Univ. of Bozen-Bolzano. Within Ontopic, he covers the position of Chief Scientist.

6 **PROFESSIONAL SERVICES AND AWARDS.** He is an active member of the scientific community in the areas of Artificial Intelligence and Databases. He has contributed to the organization of several conferences and scientific events, among which publicity co-chair of BRAIN 2019, publicity co-chair of GCAI 2019, proceeding co-chair of JIST 2019, publicity co-chair of JIST 2018, PC co-chair of COMPSAC Symposium WEDA 2015, Workshop co-chair of JIST 2015. He served in more than 20 program committee roles for international events, among which prestigious international conferences , in the areas of both Artificial Intelligence and Databases, such as IJCAI, AAAI, ISWC, and JIST. He has been invited many times to present his research work, and has been giving tutorials at CCKS'14/'17, ISWC'15, IJCAI'18, CIKM'18, and AIxIA'18. He received the Semantic Web Journal 2016 Outstanding Paper Award for the work of Ontop, the Best In-Use Paper in The 16th International Semantic Web Conference (ISWC 2017), and the Best paper in he 17th Int. Conf. of the Italian Association for Artificial Intelligence (AIxIA 2018).

7 **SELECTED PUBLICATIONS**

[1] Sebastian Brandt, Elem Güzel Kalaycı, Vladislav Ryzhikov, Guohui Xiao, and Michael Zakharyaschev. Querying log data with metric temporal logic. *Journal of Artificial Intelligence Research*, 62:829–877, 2018.

[2] T. Eiter, M. Ortiz, M. Simkus, T.K. Tran, and G. Xiao. Query rewriting for Horn-SHIQ plus rules. In *Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI 2012), July 22-26, 2012, Toronto, Ontario, Canada*. AAAI, AAAI Press, 2012.

[3] Roman Kontchakov, Martin Rezk, Mariano Rodriguez-Muro, Guohui Xiao, and Michael Zakharyaschev. Answering SPARQL queries over databases under OWL 2 QL entailment regime. In *Proc. of International Semantic Web Conference (ISWC 2014)*, LNCS. Springer, 2014.

[4] Guohui Xiao, Diego Calvanese, Roman Kontchakov, Domenico Lembo, Antonella Poggi, Riccardo Rosati, and Michael Zakharyaschev. Ontology-based data access: A survey. In *Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence, IJCAI-18*, pages 5511–5519. International Joint Conferences on Artificial Intelligence Organization, 7 2018.

[5] Guohui Xiao, Linfang Ding, Benjamin Cogrel, and Diego Calvanese. Virtual knowledge graphs: An overview of systems and use cases. *Data Intelligence*, 1:201–223, 2019.

[6] Guohui Xiao, Roman Kontchakov, Benjamin Cogrel, Diego Calvanese, and Elena Botoeva. Efficient handling of SPARQL optional for OBDA. In *ISWC*, pages 354–373, 2018.

[7] Guohui Xiao, Zuoquan Lin, Yue Ma, and Guilin Qi. Computing inconsistency measurements under multi-valued semantics by partial max-SAT solvers. In *Proc. of KR'10*, pages 340–349, 2010.