

# Xiating Ouyang

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RESEARCH INTERESTS	<b>Database systems and theoretical computer science:</b> Query processing and optimization, managing data under uncertainty, algorithm design, complexity theory and graph theory.	
EDUCATION	<b>University of Wisconsin–Madison, Madison WI</b> Ph.D. in Computer Science Advisor: Prof. Paraschos Koutris Minor in Mathematics M.Sc. in Computer Science <b>Hong Kong Polytechnic University, Hong Kong</b> B.Sc. in Computing (1st honor) <b>University of Waterloo, Waterloo ON</b> Exchange Program	2018 – present    2018 – 2020  2014 – 2018  Winter 2017
EMPLOYMENTS	<b>University of Wisconsin–Madison, Madison WI</b> <i>Research Assistant</i> <b>Meta Inc., Seattle WA</b> <i>PhD Software Engineering Intern</i> <b>Microsoft Gray Systems Lab, Azure Data, Redmond WA</b> <i>Research Intern</i> Host: Alekh Jindal and Abhishek Roy <b>Thermo Fisher Scientific, Madison WI</b> <i>Software Engineering Intern</i> <b>University of Wisconsin–Madison, Madison WI</b> <i>Teaching Assistant</i> <b>Hong Kong Polytechnic University, Hong Kong</b> <i>Undergraduate Research Assistant</i>	2019 – present  Summer 2022  Summer 2020   Summer 2019  2018 – 2019  2015 – 2018
PUBLICATIONS	*: <i>alphabetical authorship following the tradition of theoretical computer science</i> <b>SparkCruise: Workload Optimization in Managed Spark Clusters at Microsoft.</b> Abhishek Roy, Alekh Jindal, Priyanka Gomatam, Xiating Ouyang, Ashit Gosalia, Nishkam Ravi, Swinky Mann and Prakhar Jain. <i>Proceedings of the VLDB Endowment (PVLDB)</i> , 14(12): 3122–3134, 2021. <a href="https://doi.org/10.14778/3476311.3476388">doi:10.14778/3476311.3476388</a>  <b>Consistent Query Answering for Primary Keys on Path Queries.*</b> Paraschos Koutris, Xiating Ouyang and Jef Wijsen. <i>Proceedings of the 40th ACM SIGMOD-SIGACT-SIGAI Symposium on Principles of Database Systems (PODS)</i> : 215–232, 2021. <a href="https://doi.org/10.1145/3452021.3458334">doi:10.1145/3452021.3458334</a>  <b>Unit interval vertex deletion: Fewer vertices are relevant.</b> Yuping Ke, Yixin Cao, Xiating Ouyang, Wenjun Li and Jianxin Wang. <i>Journal of Computer and System Sciences</i> , 96:109–121, 2018. <a href="https://doi.org/10.1016/j.jcss.2018.01.001">doi:10.1016/j.jcss.2018.01.001</a>	
HONORS AND AWARDS	Anthony C. Klug NCR Fellowship, UW-Madison ACM-ICPC North Central North America Regional Contest, 10/208 UW-Madison CS Special Fellowship Hong Kong PhD Fellowship (declined) Hong Kong SAR Government Scholarship Dean’s Honors List, HK PolyU Outstanding Student Award, Dept. of Computing, HK PolyU ACM-HK Chapter Collegiate Programming Contest, 3/37 ACM-HK Chapter Collegiate Programming Contest, 3/34 CMA & Donars Scholarship Hong Kong SAR Talent Development Scholarship Hong Kong SAR Reaching Out Award Wong Tit-Shing Student Exchange Scholarship National High School Mathematics Competition, First Prize	2022 2018 2018 2018 2016, 2017, 2018 2015, 2016, 2018 2018 2017 2016 2016, 2017 2015, 2017 2017 2017 2013

TALKS	Consistent Query Answering for Primary Keys on Path Queries. <b>UW DB Seminar</b> , 2021 Consistent Query Answering for Primary Keys on Path Queries. <b>PODS</b> , 2021 Consistent Query Answering on Inconsistent Databases. <b>UW DB Affiliates</b> , 2021 First-order Logic, Database and Consistent Query Answering. <b>Graduate Logic Seminar</b> , 2021	
SERVICES	<b>Volunteer:</b> VLDB'21 <b>Webmaster:</b> COCOON'17 <b>Student organizer:</b> SMARTCOMP'17, COCOON'17 <b>Judge:</b> Departmental programming contest, UW–Madison <b>Coach:</b> ACM-ICPC team, HK PolyU <b>Vice president:</b> Exploring Hong Kong Community	2019 2017 – 2018 2015 – 2016
TEACHING	TA: CS 577 Introduction to Algorithms, UW–Madison	Spring 2019
EXPERIENCES	TA: CS 240 Discrete Mathematics, UW–Madison TA: COMP 2422 Database Systems, HK PolyU	Fall 2018 Fall 2017
SKILLS	<b>Programming languages:</b> C/C++/C#, Python, Java, PHP, JavaScript <b>Operating systems:</b> Linux(Ubuntu), MacOS, Windows <b>Tools:</b> git, Spark, $\text{\LaTeX}$ , tikz <b>Languages:</b> English (proficient), Mandarin (native) and Cantonese (intermediate)	