

Xiating Ouyang

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RESEARCH INTERESTS	Database systems and theoretical computer science: Query processing and optimization, managing inconsistent data, algorithm design, complexity theory and graph theory.	
EDUCATION	University of Wisconsin–Madison , Madison WI	
	Ph.D. in Computer Science with Minor in Mathematics	2018 – present
	Advisor: Prof. Paraschos Koutris	
	M.Sc. in Computer Science	2018 – 2020
	Hong Kong Polytechnic University , Hong Kong	
	B.Sc. in Computing (1st honor)	2014 – 2018
	University of Waterloo , Waterloo ON	
	Exchange Program	Winter 2017
EMPLOYMENTS	University of Wisconsin–Madison , Madison WI	2019 – present
	<i>Research Assistant</i>	
	Meta Inc. , Seattle WA	Summer 2022
	<i>PhD Software Engineering Intern – System & Infra</i>	
	Microsoft Gray Systems Lab, Azure Data , Redmond WA	Summer 2020
	<i>Research Intern</i>	
	Host: Alekh Jindal and Abhishek Roy	
	Thermo Fisher Scientific , Madison WI	Summer 2019
	<i>Software Engineering Intern</i>	
	University of Wisconsin–Madison , Madison WI	2018 – 2019
	<i>Teaching Assistant</i>	
	Hong Kong Polytechnic University , Hong Kong	2015 – 2018
	<i>Undergraduate Research Assistant</i>	
PUBLICATIONS	*: <i>alphabetical authorship following the tradition of theoretical computer science</i>	
	LinCQA: Faster Consistent Query Answering with Linear Time Guarantees.*	
	Zhiwei Fan, Paraschos Koutris, Xiating Ouyang and Jef Wijsen.	
	To appear in SIGMOD 2023. https://arxiv.org/abs/2208.12339	
	SparkCruise: Workload Optimization in Managed Spark Clusters at Microsoft.	
	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.	
	doi:10.14778/3476311.3476388	
	Consistent Query Answering for Primary Keys on Path Queries.*	
	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. doi:10.1145/3452021.3458334	
	Unit interval vertex deletion: Fewer vertices are relevant.	
	Yuping Ke, Yixin Cao, Xiating Ouyang, Wenjun Li and Jianxin Wang.	
	<i>Journal of Computer and System Sciences</i> , 96:109–121, 2018. doi:10.1016/j.jcss.2018.01.001	
HONORS AND AWARDS	Anthony C. Klug NCR Fellowship, UW-Madison	2022
	ACM-ICPC North Central North America Regional Contest, 10/208	2018
	UW-Madison CS Special Fellowship	2018

	Hong Kong PhD Fellowship (declined)	2018
	Hong Kong SAR Government Scholarship	2016, 2017, 2018
	Dean's Honors List, HK PolyU	2015, 2016, 2018
	Outstanding Student Award, Dept. of Computing, HK PolyU	2018
	ACM-HK Chapter Collegiate Programming Contest, 3/37	2017
	ACM-HK Chapter Collegiate Programming Contest, 3/34	2016
	CMA & Donars Scholarship	2016, 2017
	Hong Kong SAR Talent Development Scholarship	2015, 2017
	Hong Kong SAR Reaching Out Award	2017
	Wong Tit-Shing Student Exchange Scholarship	2017
	National High School Mathematics Competition, First Prize	2013
TALKS	Consistent Query Answering for Primary Keys on Path Queries. UW DB Seminar , 2021	
	Consistent Query Answering for Primary Keys on Path Queries. PODS , 2021	
	Consistent Query Answering on Inconsistent Databases. UW DB Affiliates , 2021	
	First-order Logic, Database and Consistent Query Answering. Graduate Logic Seminar , 2021	
SERVICES	Volunteer: VLDB'21	
	Webmaster: COCOON'17	
	Student organizer: SMARTCOMP'17, COCOON'17	
	Judge: Departmental programming contest, UW–Madison	2019
	Coach: ACM-ICPC team, HK PolyU	2017 – 2018
	Vice president: Exploring Hong Kong Community	2015 – 2016
TEACHING	TA: CS 577 Introduction to Algorithms, UW–Madison	Spring 2019
EXPERIENCES	TA: CS 240 Discrete Mathematics, UW–Madison	Fall 2018
	TA: COMP 2422 Database Systems, HK PolyU	Fall 2017
SKILLS	Programming languages: C/C++/C#, Python, Java, PHP, JavaScript	
	Operating systems: Linux(Ubuntu), MacOS, Windows	
	Tools: git, Spark, \LaTeX , tikz	
	Languages: English (proficient), Mandarin (native) and Cantonese (intermediate)	