

# 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</b> , Madison WI Ph.D. in Computer Science with Minor in Mathematics M.Sc. in Computer Science	2018 – present 2018 – 2020
	<b>Hong Kong Polytechnic University</b> , Hong Kong B.Sc. in Computing (1st honor)	2014 – 2018
	<b>University of Waterloo</b> , Waterloo ON Exchange Program	Winter 2017
EMPLOYMENTS	<b>University of Wisconsin–Madison</b> , Madison WI <i>Research Assistant</i>	2019 – present
	<b>Microsoft Gray Systems Lab, Azure Data</b> , Redmond WA <i>Research Intern</i>	Summer 2020
	<b>Thermo Fisher Scientific</b> , Madison WI <i>Software Engineering Intern</i>	Summer 2019
	<b>University of Wisconsin–Madison</b> , Madison WI <i>Teaching Assistant</i>	2018 – 2019
	<b>Hong Kong Polytechnic University</b> , Hong Kong <i>Undergraduate Research Assistant</i>	2015 – 2018
PUBLICATIONS (* ALPHABETICAL ORDER)	<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, Prakhari Jain. VLDB 2021 industrial track	
	<b>Consistent Query Answering for Primary Keys on Path Queries.*</b> Paraschos Koutris, Xiating Ouyang and Jef Wijsen. PODS 2021	
	<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. doi:10.1016/j.jcss.2018.01.001.	
SERVICES	<b>Judge</b> , Departmental coding competition, UW–Madison <b>Coach</b> , ACM-ICPC team, HK PolyU <b>Webmaster and student organizer</b> , COCOON'17 <b>Student organizer</b> , SMARTCOMP'17 <b>Vice president</b> , Exploring Hong Kong Community	2019 2017, 2018 2016, 2017 2017 2015, 2016
TEACHING EXPERIENCES	TA: CS 577 Introduction to Algorithms, UW–Madison TA: CS 240 Discrete Mathematics, UW–Madison TA: COMP 2422 Database Systems, HK PolyU	Spring 2019 Fall 2018 Fall 2017
HONORS AND AWARDS	ACM-ICPC North Central North America Regional Contest, 10/208 UW-Madison CS Special Scholarship 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, 3/34 & 3/37 CMA & Donars Scholarship	2018 2018 2016, 2017, 2018 2015, 2016, 2018 2018 2016, 2017 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

#### SKILLS

**Programming languages:** C/C++/C#, Python, Java, PHP, JavaScript

**Operating systems:** Linux(Ubuntu), MacOS, Windows

**Tools:** git,  $\text{\LaTeX}$ , tikz

**Languages:** English (proficient), Mandarin (native) and Cantonese (intermediate)