

# Yongjoo Park

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INTERESTS	My research interests are (i) building <b>real-time big data analytics systems</b> and (ii) developing <b>statistical and machine learning algorithms</b> for smarter computational engines in those systems. During my PhD study, I developed algorithms for various data analytics applications including approximate query processing, data visualizations, searching in high-dimensional space. These algorithms were published in top-tier computer science conferences such as SIGMOD, VLDB, ICDE, and so on.	
EDUCATION	<b>University of Michigan, Ann Arbor</b> Ph.D. Candidate, Computer Science and Engineering <i>Thesis Advisors: Michael Cafarella and Barzan Mozafari</i>	2017
	<b>University of Michigan, Ann Arbor</b> MS in Computer Science and Engineering CGPA: 3.955/4.0	2013
	<b>Seoul National University (SNU), Korea</b> BS in Electrical Engineering <i>Note: The flagship university of South Korea</i>	2009
PUBLICATION	<b>Yongjoo Park</b> , Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari “Database Learning: Toward a Database System that Becomes Smarter Over Time” <i>In SIGMOD International Conference on Management of Data (SIGMOD) 2017</i>  <b>Yongjoo Park</b> “Active Database Learning” <i>In the biennial Conference on Innovative Data Systems Research (CIDR) 2017</i>  <b>Yongjoo Park</b> , Michael Cafarella, Barzan Mozafari “Visualization-Aware Sampling for Very Large Databases” <i>In IEEE International Conference on Data Engineering (ICDE) 2016</i>  <b>Yongjoo Park</b> , Michael Cafarella, Barzan Mozafari “Neighbor-Sensitive Hashing” <i>Proceedings of International Conference on Very Large Data Bases (PVLDB) 2015.</i>  Michael Anderson, Dolan Antenucci, Victor Bittorf, Matthew Burgess, Michael Cafarella, Arun Kumar, Feng Niu, <b>Yongjoo Park</b> , Christopher Ré, Ce Zhang “Brainwash: A Data System for Feature Engineering” <i>In the biennial Conference on Innovative Data Systems Research (CIDR) 2013</i>	
WORKSHOP	<b>Yongjoo Park</b> , Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari “Building Databases that Become Smarter Over Time” <i>Midwest Big Data Opportunities and Challenges, U of Chicago, 2016</i>  <b>Yongjoo Park</b> , Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari “Database Learning: Toward a Database System that Becomes Smarter Over Time” <i>North East Database Day (NEDB), Oral, MIT, 2016</i> <i>Note: A preliminary presentation for our database learning work.</i>  <b>Yongjoo Park</b> , Michael Cafarella, Barzan Mozafari “Neighbor-Sensitive Hashing” <i>3rd Workshop on Web-scale Vision and Social Media (VSM) at ICCV 2015</i>	

## Extended Abstract

TECHNICAL REPORTS	<p><b>Yongjoo Park</b>, Michael Cafarella, Barzan Mozafari “Technical Report for Neighbor-Sensitive Hashing”</p> <p><b>Yongjoo Park</b>, Michael Cafarella, Barzan Mozafari “Visualization-Aware Sampling for Very Large Databases”</p>	
TEACHING EXPERIENCE	<p><b>EECS 485 Web Databases and Information Systems</b></p> <ul style="list-style-type: none"> <li>• Graduate Student Instructor, University of Michigan, Ann Arbor</li> <li>• Designed programming assignments (interactive web using JavaScript, and PageRank computation of Wikipedia pages using Hadoop)</li> <li>• Taught 100 students in weekly discussion sections</li> </ul>	‘12 Winter
WORK EXPERIENCE	<p><b>Software Engineer Internship, Amazon.com, Seattle</b></p> <ul style="list-style-type: none"> <li>• Working in a Web team, I developed a data center capacity prediction system.</li> </ul> <p><b>Software Engineer (Full-time), Webcash, Seoul</b></p> <ul style="list-style-type: none"> <li>• Internet-banking project with J.P. Morgan Hongkong</li> <li>• Financial iPhone application developments</li> </ul> <p><b>Research Assistant, System Electronics Lab Seoul National University, Seoul</b></p> <ul style="list-style-type: none"> <li>• Developed a power-efficient vehicle entertainment system that runs on embedded-processors (ARM)</li> </ul>	<p>‘14 Summer</p> <p>2009 - 2011</p> <p>2007</p>
AWARD	<p>Graduate study (for PhD) scholarship Kwanjeong Educational Foundation <i>Note: The largest scholarship foundation in Korea</i></p> <p>Graduate study (for Masters) scholarship Jeongsong Cultural Foundation <i>Note: One of eight students awarded in the year</i></p> <p>National Science Scholarship Korea Student Aid Foundation (by Korea government) <i>Note: Full tuition support</i></p>	<p>2013</p> <p>2011</p> <p>2004</p>
SERVICE	<p><b>External reviewers</b> for VLDBJ’16, VLDB’16, VLDB’15, SIGMOD’16, ICDE’15, CIDR’15, CIDR’17</p> <p>Organizers of University of Michigan DB Group meetings (’16, ’14) and MIDAS (Michigan Data Science) seminars (’14)</p>	