Yongjoo Park

http://yongjoopark.com

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INTERESTS

My research interests are (i) building **real-time big data analytics systems** and (ii) developing **statistical and machine learning algorithms** for smarter computational engines of 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

University of Michigan, Ann Arbor

2016

Ph.D. Candidate, Computer Science and Engineering *Thesis Advisors*: Michael Cafarella and Barzan Mozafari

University of Michigan, Ann Arbor

2013

MS in Computer Science and Engineering

CGPA: 3.955/4.0

Seoul National University (SNU), Korea

2009

BS in Electrical Engineering

Note: The flagship university of South Korea

PUBLICATION

Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari

"Database Learning: Toward a Database System that Becomes Smarter Over Time" In SIGMOD International Conference on Management of Data (SIGMOD) 2017

Yongjoo Park

"Active Database Learning"

In the biennial Conference on Innovative Data Systems Research (CIDR) 2017

Yongjoo Park, Michael Cafarella, Barzan Mozafari

"Visualization-Aware Sampling for Very Large Databases" In IEEE International Conference on Data Engineering (ICDE) 2016

Yongjoo Park, Michael Cafarella, Barzan Mozafari

"Neighbor-Sensitive Hashing"

Proceedings of International Conference on Very Large Data Bases (PVLDB) 2015.

Michael Anderson, Dolan Antenucci, Victor Bittorf, Matthew Burgess, Michael Cafarella,

Arun Kumar, Feng Niu, Yongjoo Park, Christopher Ré, Ce Zhang

"Brainwash: A Data System for Feature Engineering"

In the biennial Conference on Innovative Data Systems Research (CIDR) 2013

WORKSHOP

Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari

"Building Databases that Become Smarter Over Time"

Midwest Big Data Opportunities and Challenges, U of Chicago, 2016

Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari

"Database Learning: Toward a Database System that Becomes Smarter Over Time"

North East Database Day (NEDB), Oral, MIT, 2016

Note: A preliminary presentation for our database learning work.

Yongjoo Park, Michael Cafarella, Barzan Mozafari

"Neighbor-Sensitive Hashing"

3rd Workshop on Web-scale Vision and Social Media (VSM) at ICCV 2015

Extended Abstract

TECHNICAL REPORTS	Yongjoo Park, Michael Cafarella, Barzan Mozafari "Technical Report for Neighbor-Sensitive Hashing" Yongjoo Park, Michael Cafarella, Barzan Mozafari "Visualization-Aware Sampling for Very Large Databases"	
TEACHING EXPERIENCE	 EECS 485 Web Databases and Information Systems Graduate Student Instructor, University of Michigan, Ann Arbor Designed programming assignments (interactive web using JavaScript, and PageRank computation of Wikipedia pages using Hadoop) Taught 100 students in weekly discussion sections 	'12 Winter
WORK EXPERIENCE	 Software Engineer Internship, Amazon.com, Seattle Working in a Web team, I developed a data center capacity prediction system. 	'14 Summer
	 Software Engineer (Full-time), Webcash, Seoul Internet-banking project with J.P. Morgan Hongkong Financial iPhone application developments 	2009 - 2011
	Research Assistant, System Electronics Lab Seoul National University, Seoul • Developed a power-efficient vehicle entertainment system that runs on embedded-processors (ARM)	2007
AWARD	Graduate study (for PhD) scholarship Kwanjeong Educational Foundation Note: The largest scholarship foundation in Korea	2013
	Graduate study (for Masters) scholarship Jeongsong Cultural Foundation Note: One of eight students awarded in the year	2011
	National Science Scholarship Korea Student Aid Foundation (by Korea government) Note: Full tuition support	2004
SERVICE	External reviewers for VLDBJ'16, VLDB'16, VLDB'15, SIGMOD'16, ICDE'15, CIDR'15, CIDR'17	
	Organizers of University of Michigan DB Group meetings ('16, '14) and MIDAS (Michigan Data Science) seminars ('14)	