Yongjoo Park

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INTERESTS

My research interests lie in **big data processing** and its applications to **data mining**. In particular, I focus on building **interactive** big data processing systems by leveraging machine learning and statistical techniques. This initiative has been applied to various applications, such as real-time data analytics, data visualizations, searching in high-dimensional space, etc., for which real-time answers could bring significant benefits to data analysts and decision makers.

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 in Korea

AWARDS

Graduate study (for PhD) scholarship — 2013
Kwanjeong Educational Foundation
Note: The largest scholarship foundation in Korea

Graduate study (for Masters) scholarship — 2011
Jeongsong Cultural Foundation
Note: One of eight students awarded in the year

National Science Scholarship — 2004
Korea Student Aid Foundation (by Korea government)
Note: Full tuition support

PUBLICATIONS, PRESENTATIONS

Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari
Database Learning: Toward a Database System that Becomes Smarter Over Time
In submission to International Conference on Very Large Data Bases (VLDB) 2017
Note: All three reviewers of this paper noted that "The paper will start a new line of research and products."

Yongjoo Park, Michael Cafarella, Barzan Mozafari
Visualization-Aware Sampling for Very Large Databases
IEEE International Conference on Data Engineering (ICDE) 2016
Note: A novel sampling method for one of the most frequently used data visualization method: scatter plot.

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) 2016, Oral, MIT
Note: A preliminary presentation for our VLDB paper above.

Yongjoo Park, Michael Cafarella, Barzan Mozafari
Neighbor-Sensitive Hashing
International Conference on Very Large Data Bases (VLDB) 2016
Note: A significant improvement on an extremely well-known problem over the numerous works of the past decade.

Yongjoo Park, Michael Cafarella, Barzan Mozafari
Neighbor-Sensitive Hashing
3rd Workshop on Web-scale Vision and Social Media (VSM) at ICCV 2015
Extended Abstract

Michael Anderson, Dolan Antenucci, Victor Bittorf, Matthew Burgess, Michael Cafarella, Arun Kumar, Feng Niu, **Yongjoo Park**, Christopher Ré, Ce Zhang
(authors in alphabetic order)
Brainwash: A Data System for Feature Engineering
The biennial Conference on Innovative Data Systems Research (CIDR) 2013

TEACHING EXPERIENCE	**EECS 485 Web Databases and Information Systems**	'12 Winter
	• 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	
WORK EXPERIENCE	**Software Engineer Internship, Amazon.com, Seattle**	'14 Summer
	• Working in a Web team, I developed a data center capacity prediction system.	
	Software Engineer (Full-time), Webcash, Seoul	2009 - 2011
	• Internet-banking project with J.P. Morgan Hongkong	
	• Financial iPhone application developments	
	Research Assistant, System Electronics Lab **Seoul National University, Seoul**	2007
	• Developed a power-efficient vehicle entertainment system that runs on embedded-processors (ARM)	
SERVICE	**External reviewers** for VLDBJ'16, VLDB'16, VLDB'15, SIGMOD'16, ICDE'15, CIDR'15	
	Organizers of University of Michigan DB Group meetings ('16, '14) and MIDAS (Michigan Data Science) seminars ('14)	