

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 <i>interactive</i> 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 Ph.D. Candidate, Computer Science and Engineering <i>Thesis Advisors:</i> Michael Cafarella and Barzan Mozafari	2016
	University of Michigan, Ann Arbor Masters in Computer Science and Engineering CGPA: 3.955/4.0	2013
	Seoul National University, Korea BS in Electrical Engineering	2009
AWARDS	Graduate study (for PhD) scholarship Kwanjeong Educational Foundation • The largest scholarship foundation in Korea	2013
	Graduate study (for Masters) scholarship Jeongsong Cultural Foundation • One of eight students awarded in the year	2011
	National Science Scholarship Korea Student Aid Foundation (funded by Korea government) • A full tuition support	2004
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 The Proceedings of the Very Large Data Bases (PVLDB) 2016 <i>Note: All three reviewers of this paper noted that “The paper will start a new line of research and products.”</i>	
	Yongjoo Park , Michael Cafarella, Barzan Mozafari Visualization-Aware Sampling for Very Large Databases IEEE International Conference on Data Engineering (ICDE) 2016 <i>Note: A novel sampling method for one of the most frequently used data visualization method—scatter plot.</i>	
	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 <i>Note: A preliminary presentation for our VLDB paper above.</i>	

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

Yongjoo Park, Michael Cafarella, Barzan Mozafari
[Neighbor-Sensitive Hashing](#)
The Proceedings of the Very Large Data Bases (PVLDB) 2015
Note: A significant improvement on an extremely well-known problem over the numerous works of the past decade.

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 2007
Seoul National University, Seoul
 • 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)