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 *smarter* and *faster* big data analysis systems by leveraging advanced machine learning and statistical techniques. My systems are applied to various problems, such as real-time data analytics, data visualizations, search in high-dimensional space, etc., for which harnessing big data is of great practical importance, but at the same time, brings novel challenges.

EDUCATION

University of Michigan, Ann Arbor — 2016
Ph.D. Candidate, Computer Science and Engineering
Advisors: Michael Cafarella and Barzan Mozafari

University of Michigan, Ann Arbor — 2013
Masters in Computer Science and Engineering
CGPA: 3.955/4.0

Seoul National University, Korea — 2009
BS in Electrical Engineering

AWARDS

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

Graduate study (for Masters) scholarship — 2011
Jeongsong Cultural Foundation
- One of eights students awarded in the same year

National Science Scholarship — 2004
Korea Student Aid Foundation (funded by Korea government)

PUBLICATIONS

Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari
Database Learning: Toward a Database System that Becomes Smarter Over Time
In submission to PVLDB 2016

Yongjoo Park, Michael Cafarella, Barzan Mozafari
Visualization-Aware Sampling for Very Large Databases
ICDE 2016

Yongjoo Park, Michael Cafarella, Barzan Mozafari
Neighbor-Sensitive Hashing
PVLDB 2016

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
CIDR 2013

OTHER TALKS

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

Yongjoo Park, Michael Cafarella, Barzan Mozafari

Neighbor-Sensitive Hashing
3rd Workshop on Web-scale Vision and Social Media (VSM) at ICCV 2015
Extended Abstract

TEACHING EXPERIENCE	**EECS 485 Web Databases and Information Systems**	'12 Winter

- Graduate Student Instructor, University of Msichigan, 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 development

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 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)