Yongjoo Park

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INTERESTS

I am interested in (i) building **real-time big data analytics systems** and (ii) developing **statistical** and **machine learning algorithms** for those systems.

During my PhD study, I developed systems and algorithms for various data analysis applications including approximate query processing, data visualizations, and searching in high-dimensional space.

EDUCATION

University of Michigan, Ann Arbor

Ph.D. Candidate in Computer Science and Engineering — 2017 (expected)
Advisors: Michael Cafarella and Barzan Mozafari

MS in Computer Science and Engineering (CGPA: 3.955/4.0) — 2013

Seoul National University (SNU), Korea — 2009
BS in Electrical Engineering

RESEARCH

Conference

- Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari
  Database Learning: Toward a Database System that Becomes Smarter Over Time
  SIGMOD 2017
- Yongjoo Park
  Active Database Learning
  CIDR 2017 (abstract)
- 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 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
  CIDR 2013

Workshop

- Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari
  Building Databases that Become Smarter Over Time
  MBDOC, Chicago, 2016
- Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari
  Database Learning: Toward a Database System that Becomes Smarter Over Time
  NEDB, Oral, MIT, 2016

- Yongjoo Park, Michael Cafarella, Barzan Mozafari
  Neighbor-Sensitive Hashing (extended abstract)
  VSM at ICCV 2015

Non-referred Technical Reports

- Yongjoo Park, Amhad Shahab Tajik, Michael Cafarella, Barzan Mozafari
  Database Learning: Toward a Database System that Becomes Smarter Over Time
- Yongjoo Park, Michael Cafarella, Barzan Mozafari
  Technical Report for Neighbor-Sensitive Hashing
  http://www-personal.umich.edu/~pyongjoo/vldb2016sup.pdf
- Yongjoo Park, Michael Cafarella, Barzan Mozafari
  Technical Report for Visualization-Aware Sampling for Very Large Databases
  https://arxiv.org/abs/1510.03921

TEACHING

EECS 485 Web Databases and Information Systems — Winter '12

- Graduate Student Instructor, University of Michigan, Ann Arbor
- Designed programming assignments (interactive web using JavaScript, and PageRank computation of Wikipedia pages using Hadoop)

WORK

Software Engineer Internship, Amazon.com, Seattle — Summer '14

- Developed a data center capacity prediction system

Software Engineer (Full-time), Webcash, Seoul — Dec '08 – May '11

- Developed J.P. Morgan Internet banking
- Developed financial iPhone applications

Research Assistant, System Electronics Lab — June '07 – Jan '08
Seoul National University, Seoul

- Developed a power-efficient vehicle entertainment system that runs on embedded-processors (ARM)

AWARD

Graduate study (for PhD) scholarship — Fall '13 – Winter '17
Kwanjeong Educational Foundation

Graduate study (for Masters) scholarship — Fall '11 – Winter '13
Jeongsong Cultural Foundation

National Science Scholarship — 2004 – 2007
Korea Student Aid Foundation (by Korea government)

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)