Zhongjun Jin (Mark)

CONTACT INFORMATION

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OBJECTIVES

Applying for an industrial research scientist / applied scientist / research engineer / software engineer position starting in summer 2020.

RESEARCH INTERESTS

Build interactive systems for data scientists/analysts and programmers using a combination of AI, HCI and PL techniques.

EDUCATION

University of Michigan, Ann Arbor, MI, USA **Aug. 2014 - May 2020**

Ph.D. Candidate, Computer Science and Engineering

- Advisor: Prof. Michael Cafarella and Prof. H. V. Jagadish

Purdue University, West Lafayette, IN, USA **Aug. 2011 - May 2014**

B.S. in Computer Science, Mathematics

Tianjin University, Tianjin, China **Aug. 2009 - Jul. 2011**

Electronic Information Science

PROFESSIONAL EXPERIENCE

Microsoft Research, Redmond, WA **Feb 2019 - May 2019**

Research Intern (Mentored by Yeye He)

Trifacta, San Francisco, CA **May 2017 - Sep. 2017**

Software Engineering Intern (Mentored by Sean Kandel, Michael Minar, and Joe Hellerstein)
Work integrated to Trifacta Cloud Wrangler as a main feature in Aug 2018.

Qualcomm, San Diego, CA **May 2013 - Aug. 2013**

Software Engineering Intern
Integrated Functional Tests into ASIA Test Automation System Using Perl Scripting Language.

RESEARCH PROJECTS

- FOOFAH. A system synthesizing data transformation programs using user-provided positive examples.
- CLX. A system profiling string data patterns and suggesting transformation programs for data in non-standard patterns.
- AUTOTRANSFORM. A system recommending string data transformation programs learned apriori from a large corpus of web data.
- PRISM. A system synthesizing SQL queries using imprecise tuple examples the end user provides.
- DEEPWRANGLER. A neural-guided program synthesis framework targeting at reducing the amount of examples end users need to provide in examples-driven data transformations.

Conference and Workshop Papers

1. Christopher Baik, **Zhongjun Jin**, Michael Cafarella, and H. V. Jagadish, "Constructing Expressive Relational Queries with Dual-Specification Synthesis", in *CIDR* 2020.
2. **Zhongjun Jin**, Michael Cafarella, H. V. Jagadish, Sean Kandel, Michael Minar, and Joseph M. Hellerstein, "CLX: Towards verifiable PBE data transformation", in *EDBT* 2019.
3. **Zhongjun Jin**, Christopher Baik, Michael Cafarella, H. V. Jagadish, and Yuze Lou, "Demonstration of a Schema Mapping System Using Multiresolution Constraints", in *CIDR* 2019.
4. Christopher Baik, **Zhongjun Jin**, and Michael Cafarella, "Disambiguating Queries in Conversational Interface", in *CAST @ VLDB* 2019.
5. Abolfazl Asudeh, **Zhongjun Jin**, and H. V. Jagadish, "Assessing and Remedying Coverage for a Given Dataset", in *ICDE* 2019.
6. **Zhongjun Jin**, Christopher Baik, Michael Cafarella, and H. V. Jagadish, "Beaver: Towards a Declarative Schema Mapping", in *HILDA @ SIGMOD* 2018.
7. **Zhongjun Jin**, Michael R Anderson, Michael Cafarella, and H. V. Jagadish, "Foofah: Data Transformation By Example", in *SIGMOD* 2017.
8. **Zhongjun Jin**, Michael R Anderson, Michael Cafarella, and H. V. Jagadish, "Foofah: A Programming-By-Example System for Synthesizing Data Transformation Programs", in *SIGMOD* 2017.
9. Rohit Ranchal, Bharat K. Bhargava, Ruchith Fernando, Hui Lei, and **Zhongjun Jin**, "Privacy Preserving Access Control in Service-Oriented Architecture", in *ICWS* 2016.
10. Pelin Angin, Bharat Bhargava, and **Zhongjun Jin**, "A Self-Cloning Agents Based Model for High-Performance Mobile-Cloud Computing", in *CLOUD* 2015.
11. **Zhongjun Jin**, Mengjing Xu, Chenkai Sun, Abolfazl Asudeh, and H. V. Jagadish, "Mithra-Coverage: A System for Investigating Population Bias for Intersectional Fairness", under review.
12. Christopher Baik, **Zhongjun Jin**, Michael Cafarella, and H. V. Jagadish, "A Dual-Specification System for Inferring SQL Queries", under review.
13. **Zhongjun Jin**, Christopher Baik, Michael Cafarella, H. V. Jagadish, and Yuze Lou, "Schema Mapping with Multiresolution Constraints", under review.

Honors and Awards

- 1st Prize in "Systems, Software Engineering and Computer Science" session in *Michigan Engineering Graduate Symposium 2017 (EGS 2017)*, 2017.
- Selected as "Best of Demos" at SIGMOD 2017.
- Sigmod Travel Award, 2017.
- University of Michigan Departmental PhD Fellowship, 2014.
- Outstanding Undergraduate Research Endeavor Award, Purdue Computer Science Dept, 2014
- Purdue Computer Science Neel Memorial Scholarship, 2013
- Purdue Computer Science Departmental Scholarship, 2012

Invited Talks

- "Intelligent Self-service Data Preparation: Problems and Solutions", 11/15/2018, Llamasoft Inc., USA.

Service

- External Reviewer: SoCC'19