Zhongjun Jin (Mark)

Contact Information

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Research Interests

Enabling self-service data preparation using a combination of AI, HCI and PL techniques.

Education

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

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, GPA 3.85

Tianjin University, Tianjin, China (Top 5 in Engineering) **Aug. 2009 - Jul. 2011**

Electronic Information Science

Software Engineering Experience

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

Software Engineering Intern (Supervised by Dr. Sean Kandel and Dr. Michael Minar)
Designed and implemented a Programming-By-Example text format standardization framework for Trifacta Wrangler, which infers explainable, configurable string transformation programs costing 30%-70% less user effort than the state-of-the-art system FlashFill from Microsoft Research.

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

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

Delphi Electronics and Safety Lab, West Lafayette, IN **May 2012 - May 2013**

Part-time Software Verification Engineer Intern
Created New Features for DOORS Standard Control System using DXL Scripting Language.

Conference and Workshop papers

1. Assessing and Remedying Coverage for a Given Dataset. (under review)
   Abolfazl Asudeh, **Zhongjun Jin**, H. V. Jagadish.

2. CLX: Towards verifiable PBE data transformation. (under review)
   Zhongjun Jin, Michael Cafarella, H. V. Jagadish, Sean Kandel, Michael Minar, Joseph M. Hellerstein.

3. Demonstration of a Schema Mapping System Using Multiresolution Constraints.
   Zhongjun Jin, Christopher Baik, Michael Cafarella, H. V. Jagadish, Yuze Lou.
   9th Biennial Conference on Innovative Data Systems Research (CIDR 2019), Asilomar, CA, 2019

4. Beaver: Towards a Declarative Schema Mapping.
Zhongjun Jin, Christopher Baik, Michael Cafarella, H. V. Jagadish.
Proceedings of the 3rd Workshop on Human-In-the-Loop Data Analytics (HILDA @ SIGMOD 2018), Houston, TX, 2018

5. Foofah: Data Transformation By Example.
Zhongjun Jin, Michael R Anderson, Michael Cafarella, H. V. Jagadish.
Proceedings of the 2017 ACM SIGMOD International Conference on Management of Data (SIGMOD 2017), Chicago, IL, 2017

6. Foofah: A Programming-By-Example System for Synthesizing Data Transformation Programs. (demo, selected as Best of Demos)
Zhongjun Jin, Michael R Anderson, Michael Cafarella, H. V. Jagadish.
Proceedings of the 2017 ACM SIGMOD International Conference on Management of Data (SIGMOD 2017), Chicago, IL, 2017

7. Privacy Preserving Access Control in Service-Oriented Architecture.
Rohit Ranchal, Bharat K. Bhargava, Ruchith Fernando, Hui Lei, **Zhongjun Jin**.
IEEE International Conference on Web Services (ICWS 2016), San Francisco, CA, 2016.

8. A Self-Cloning Agents Based Model for High-Performance Mobile-Cloud Computing.
Pelin Angin, Bharat Bhargava, **Zhongjun Jin**.
Cloud Computing, 2015 IEEE 8th International Conference (CLOUD 2015), New York, 2015.

Miscellany

poster- Privacy Preserving Access Control in Service Oriented Architecture.
Rohit Ranchal, Ruchith Fernando, **Zhongjun Jin**, Pelin Angin, Bharat Bhargava.
Proceedings of the 15th Annual Information Security Symposium, West Lafayette, IN, 2014.

Invited Talks

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

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

References

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