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

Purdue University, West Lafayette, IN, USA
Supervised by Prof. Bharat Bhargava, Dr. Rohit Ranchal, Dr. Pelin Angin
Mobile Cloud Computing and Secure Data Sharing. **Aug. 2013 - May 2014**

- Designed and implemented applications for proof of concept and performed the experiments.

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. Demonstration of a Multiresolution Schema Mapping System. (under review)
   Zhongjun Jin, Christopher Baik, Michael Cafarella, H. V. Jagadish, Yuze Lou.

2. CLX: Towards a scalable and comprehensible design of PBE data transformation. (under review)
   Zhongjun Jin, Michael Cafarella, H. V. Jagadish, Sean Kandel, Michael Minar, Joseph M. Hellerstein.

3. Ensuring Adequate Coverage in a Dataset. (under review)
   Abolfazl Asudeh, **Zhongjun Jin**, H. V. Jagadish.

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

abstract- Language-Neutral Program Synthesis for Data Transformations. (under review)
Zhongjun Jin.

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.

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