

Zhongjun Jin (Mark)

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RESEARCH INTERESTS	Data Preparation/ETL, Data Integration, Program Synthesis	
EDUCATION	University of Michigan , Ann Arbor, MI, USA Ph.D. Candidate, Computer Science and Engineering <ul style="list-style-type: none">• Advisor: Prof. Michael Cafarella and Prof. H. V. Jagadish Purdue University , West Lafayette, IN, USA B.S. in Computer Science, Mathematics, GPA 3.85 Tianjin University , Tianjin, China (Top 5 in Engineering) Electronic Information Science	Aug. 2014 - present Aug. 2011 - May 2014 Aug. 2009 - Jul. 2011
RESEARCH EXPERIENCE	University of Michigan , Ann Arbor, MI, USA <i>Supervised by Prof. Michael Cafarella and Prof. H. V. Jagadish</i> Improving the Usability of Data Integration Systems	Jan. 2017 - now <ul style="list-style-type: none">• Developing a declarative schema mapping technology for database systems.• Infers complex schema mapping specifications using the declaration query from the naive user. Improving the Usability of Data Transformation Systems
	Purdue University , West Lafayette, IN, USA <i>Supervised by Prof. Bharat Bhargava, Dr. Rohit Ranchal, Dr. Pelin Angin</i> Mobile Cloud Computing and Secure Data Sharing.	Jan. 2015 - Nov. 2016 Aug. 2013 - May 2014 <ul style="list-style-type: none">• Developed a combinatorial-search-based Programming-by-example program synthesis technology, Foofah, for data transformation/wrangling.• Foofah resolves 90% real-world data transformation/wrangling tasks costing 60% less user effort than the state-of-the-art Wrangler system from Stanford.• Designed and implemented applications for proof of concept and performed the experiments.
CONFERENCE AND WORKSHOP PAPERS	<ol style="list-style-type: none">1. Unifacta: Profiling-driven Pattern Standardization. (under review) Zhongjun Jin, Michael Cafarella, H. V. Jagadish, Sean Kandel, Michael Minar.2. Beaver: Towards a Declarative Schema Mapping. Zhongjun Jin, Christopher Baik, Michael Cafarella, H. V. Jagadish. <i>Proceedings of the 3rd Workshop on Human-In-the-Loop Data Analytics (HILDA 2018)</i>, Houston, TX, 20183. Foofah: Data Transformation By Example. Zhongjun Jin, Michael R Anderson, Michael Cafarella, H. V. Jagadish. <i>Proceedings of the 2017 ACM SIGMOD International Conference on Management of Data</i>	

(SIGMOD 2017), Chicago, IL, 2017

4. Foofah: A Programming-By-Example System for Synthesizing Data Transformation Programs. (demo, invited to Best of Demo Session)
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
5. 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.
6. 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- Foofah: A Programming-By-Example System for Synthesizing Data Transformation Programs.
Zhongjun Jin, Michael R Anderson, Michael Cafarella, H. V. Jagadish
Michigan Engineering Graduate Symposium 2017 (EGS 2017), Ann Arbor, MI, 2017.
- 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.

SOFTWARE ENGINEERING EXPERIENCE

Trifacta, San Francisco, CA **May 2017 - Sep. 2017**
Software Engineering Intern (Supervised by Dr. Sean Kandel and Dr. Michael Minar)
Designed a Programming-By-Example String Pattern Standardization System for Trifacta Wrangler, which infers explainable, configurable string transformation programs using 50%-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.

HONORS AND AWARDS

- 1st Prize in “Systems, Software Engineering and Computer Science” session in *Michigan Engineering Graduate Symposium 2017 (EGS 2017)*, 2017.
- Sigmod Travel Award, 2017.
- University of Michigan Rackham Travel Grant, 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