

Zhongjun Jin (Mark)

CONTACT INFORMATION	4945 Bob and Betty Beyster Building 2260 Hayward Street Ann Arbor, MI 48109, USA	<i>Phone:</i> (765) 421-5014 <i>E-mail:</i> markjin@umich.edu, markjin1990@gmail.com <i>Website:</i> https://markjin1990.github.io/
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	Aug. 2014 - present
	Purdue University , West Lafayette, IN, USA B.S. in Computer Science, Mathematics, GPA 3.85	Aug. 2011 - May 2014
	Tianjin University , Tianjin, China (Top 5 in Engineering) Electronic Information Science	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 schema mapping synthesis technique adapted to various user constraints.	
	Improving the Usability of Data Transformation Systems	Jan. 2015 - Nov. 2016
	<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.	
	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.	Aug. 2013 - May 2014
	<ul style="list-style-type: none">• 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 @ SIGMOD 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 (SIGMOD 2017)</i>, Chicago, IL, 2017	

4. 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
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 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.

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 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