

XIANGLIANG ZHANG, Ph.D.

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WORK EXPERIENCE

2017 – KAUST Associate Professor	2011 – 2017 KAUST Assistant Professor	2010 – 2011 KAUST Research Scientist
2010 NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY European ERCIM Research Fellow	2009 – 2010 INSERM & UNIVERSITY PARIS-SUD 11 Graduate Student Research Assistant	2006 – 2009 INRIA & UNIVERSITY PARIS-SUD 11 Graduate Student Research Assistant
2006 UNIVERSITY OF TRENTO Research Intern		

RESEARCH INTERESTS

Data Mining and Big Data Analysis, Machine Learning and its applications.

EDUCATION

2010 INRIA AND UNIVERSITY PARIS-SUD 11, FRANCE Computer Science Ph.D. (with honors)	2006 XI'AN JIAOTONG UNIVERSITY, CHINA Electronic Engineering M.S.	2003 XI'AN JIAOTONG UNIVERSITY, CHINA Information Engineering B.S.
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SELECTED AWARDS

2010 CHINESE GOVERNMENT AWARD FOR OUTSTANDING SELF-FINANCED STUDENTS ABROAD	2009 ERCIM “ALAIN BENSOUSSAN” FELLOWSHIP	2006 ECCAI TRAVEL AWARD
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SUPERVISING RESEARCH

2018 - SHANGSONG LIANG Research Scientist	2018 - RABEAH AL-ZAIDY Postdoctoral research fellow	2017 - JUNZHOU ZHAO Postdoctoral research fellow
2016 -2017 KE SUN Postdoctoral research fellow	2016 -2017 AN LIU Postdoctoral research fellow	2015 - 2016 CHENGBIN PENG Research Associate
2014 -2016 MOUSTAPHA CISSE Postdoctoral research fellow	2013 - 2015 QING XIE Postdoctoral research fellow	2013 - 2014 ZHIXU LI Postdoctoral research fellow
2012 - 2014 FAISAL KAMIRAN Postdoctoral research fellow	2012 - 2014 HAI HUANG Postdoctoral research fellow	2012 HENGJIE SONG Postdoctoral research fellow
	2017 - ZHUO YANG Ph.D. candidate	2017 - QIANNAN ZHANG Ph.D. candidate
2016 - LU YU Ph.D. candidate	2016 - SHICHAO PEI Ph.D. candidate	2016 - GUOLEI SUN Ph.D. candidate

2016 -
UCHENNA AKUJUOBI
Ph.D. candidate

2011 -2017
BASMA AL-HARBI
Ph.D. candidate

2014 -2016
SU WANG
M.S. student

2011
SHUAI ZHENG
M.S. student

2013 -
BASMAH ALTAF
Ph.D. candidate

2011 - 2016
ABDULHAKIM QAHTAN
Ph.D. student

2015 - 2016
UCHENNA AKUJUOBI
M.S. student

2011
TAK MAN DESMOND LEE
M.S., co-supervised

2012 -2017
IBRAHIM ALABDULMOHSIN
Ph.D. candidate

2012 - 2013
BASMAH ALTAF
M.S. student

VISITING

July - August 2016
UNIVERSITY OF VICTORIA
Visiting Professor

January 2013, August 2011
TEXAS A&M UNIVERSITY
Visiting Professor

June – August 2011
IBM T. J. WATSON RESEARCH CENTER
Visiting Scientist

July 2016
UNIVERSITY OF ROCHESTER
Visiting Professor

July - August 2012
CONCORDIA UNIVERSITY
Visiting Professor

July – August 2010
UNIVERSITY OF LUXEMBOURG
Visiting Researcher

March 2014, October 2012
UNIVERSITE PARIS-SUD
Visiting Professor

June 2012, November 2011
MICROSOFT RESEARCH ASIA
Visiting Professor

January 2008
MASARYK UNIVERSITY
Visiting Research Student

TEACHING

Spring 2018; Spring 2011 – 2016
MACHINE LEARNING

Fall 2015-2017; Fall 2010-2013
COMPUTATIONAL METHODS IN DATA MINING

RESEARCH PROJECTS (SELECTED)

2011 - 2024
SOLE PRINCIPAL INVESTIGATOR (PI)
Algorithms and applications of machine intelligence and knowledge engineering
KAUST BASELINE
4.9M USD

2012 - 2013
PI
(with Dr. Hani Jamjoom (PI) at IBM Watson)
LIQUIDx - An Elasticity Framework for High Performance Computing Clouds
KAUST-IBM JOINT PROJECT
657K USD

2012 - 2013
PI
(with Prof. Suojin Wang (PI) at TA&MU)
Some Highly Collaborative Research Problems in Statistical Machine Learning and Uncertainty Quantification
INNOVATION AWARD
40K USD

2016 - 2019
PI
Extreme Classification of Complex Data with Applications to Multi-media and Recognition of Plastic Debris Floating in Seawater
KAUST Competitive Research Grants
1,291,198 USD

PROFESSIONAL ACTIVITIES

Associate Editor & Editorial Board
**HEALTH INFORMATION SCIENCE AND
SYSTEMS (SPRINGER)**

Technical Program Committee Member

**IJCAI 2017 (SPC) AAAI 2017 NIPS 2017 KDD 2018 ICML 2018 CIKM 2018
ICDM 2018 PAKDD 2018
IJCAI 2017 (SPC) AAAI 2017 NIPS 2017 ICDM 2017 WSDM 2017 SDM 2017
AAAI 2016 KDD 2016 ICDM 2016 APWEB 2016 (DEMO CHAIR) ICMLA 2016
CLOUDNET 2016 WAIM 2016
KDD 2015 ICDM 2015 WSDM 2015 SAC 2015 WAIM 2015
KDD 2014 ICDE 2014 ICDM 2014 SAC 2014 WAIM 2014 CLOUDNET 2014
ICDM 2013 WISE 2013 WAIM 2013 CSWS 2013 ADMA 2013
MACIS 2013 (TRACK CHAIR)
CIKM 2012 WISE 2012 WAIM 2012 EDB 2012 ADMA 2012
SSDBM 2011 ICMLA 2011 KAUST-WEP 2011 ADMA 2011**

Guest Editor
**IEEE NETWORK
MATHEMATICS IN COMPUTER
SCIENCE**

Membership
**PASCAL ECCAI IEEE AAAI
ACM**

UNIVERSITY SERVICE

Faculty Search Committee
**2013, 2014
STATISTICS
KAUST**

Graduate Student Admission Committee
**2012, 2013
COMPUTER SCIENCE PROGRAM
KAUST**

Thesis Committees
**2011-
11 PH.D. OF COMPUTER SCIENCE
18 MASTER OF COMPUTER SCIENCE
KAUST
1 PH.D. OF COMPUTER SCIENCE
(JURY MEMBER)
UNIVERSITE PARIS-SUD**

SELECTED RECENT 15 PUBLICATIONS

1. Shangsong Liang, [Xiangliang Zhang](#), Zhaochun Ren and Evangelos Kanoulas: Dynamic Embeddings for User Profiling in Twitter. Accepted by 24th SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2018**), London, UK, August 19 - 23, 2018 (long presentation)
2. Yufei Han, Yun Shen, Guolei Sun and [Xiangliang Zhang](#): Multi-label Learning with Highly Incomplete Data via Collaborative Embedding. Accepted by 24th SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2018**), London, UK, August 19 - 23, 2018 (long presentation)
3. Chuxu Zhang, Lu Yu, [Xiangliang Zhang](#), Nitesh Chawla: Task-Guided and Semantic-Aware Ranking for Academic Author-Paper Correlation Inference. Accepted by 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (**IJCAI-ECAI 2018**), Stockholm, Sweden, July 13-19 2018.
4. Lu Yu, Chuxu Zhang, Shichao Pei, Guolei Sun, [Xiangliang Zhang](#): WalkRanker: A Unified Pairwise Ranking Model with Multiple Relations for Item Recommendation. Accepted by the 32nd AAI Conference on Artificial Intelligence (**AAAI 2018**), New Orleans, February 2-7, 2018.
5. Chuxu Zhang, Chao Huang, Lu Yu, [Xiangliang Zhang](#), Nitesh Chawla: Camel: Content-Aware and Meta-path Augmented Metric Learning for Author Identification. Accepted by 27th International World Wide Web Conference (**WWW 2018**), Lyon, France, Apr 23 - 27, 2018.
6. Pinghui Wang, Yiyang Qi, Yu Sun, [Xiangliang Zhang](#), Jing Tao, Xiaohong Guan. Approximately Counting Triangles in Large Graph Streams Including Edge Duplicates with a Fixed Memory Usage. Accepted by **PVLDB 11**.
7. Pinghui Wang, Junzhou Zhao, [Xiangliang Zhang](#), Zhenguo Li, Jiefeng Cheng, John C.S. Lui, Don Towsley, Jing Tao, Xiaohong Guan. MOSS-5: A Fast Method of Approximating Counts of 5-Node Graphlets in Large Graphs. Accepted by IEEE Transactions on Knowledge and Data Engineering (**TKDE**), 2017
8. Uchenna Akujuobi, [Xiangliang Zhang](#): Delve: A Dataset-Driven Scholarly Search and Analysis System. **SIGKDD Explorations**, Vol. 19, Issue 2, 2017.
9. Abdulhakim A Qahtan, Suojin Wang, [Xiangliang Zhang](#), "KDE-Track: An Efficient Dynamic Density Estimator for Data Streams". IEEE Transactions on Knowledge and Data Engineering (**TKDE**), vol. 29, no. 3, pp. 642-655, 2017

10. Binbin Gu, Zhixu Li, [Xiangliang Zhang](#), An Liu, Guanfeng Liu, Kai Zheng, Lei Zhao, Xiaofang Zhou. "The Interaction between Schema Matching and Record Matching in Data Integration". IEEE Transactions on Knowledge and Data Engineering (**TKDE**), vol. 29, no. 1, pp. 186-199, 2017.
11. Basma Alharbi, [Xiangliang Zhang](#). "Learning from your network of friends: a trajectory representation learning model based on online social ties". Accepted by the 16th IEEE International Conference on Data Mining (**ICDM 2016**), Barcelona, December 12-15, 2016.
12. Qing Xie, [Xiangliang Zhang](#), Zhixu Li, Xiaofang Zhou, "Optimizing Cost of Continuous Overlapping Queries over Data Streams by Filter Adaption". Accepted by IEEE Transactions on Knowledge and Data Engineering (**TKDE**), 2016.
13. Basma Alharbi, Abdulhakim A Qahtan, [Xiangliang Zhang](#), "Minimizing User Involvement for Learning Human Mobility Patterns from Location Traces". Accepted by the 30th AAAI Conference on Artificial Intelligence (**AAAI 2016**), Phoenix, Arizona, February 12-17, 2016 (regular paper, acceptance rate=549/2132=25.7%) .
14. Ibrahim Alabdulmohsin, Moustapha Cisse, Xin Gao, [Xiangliang Zhang](#), "Large Margin Classification with Indefinite Similarities". Accepted by **Machine Learning** Journal, 2016.
15. Abdulhakim A Qahtan, Basma Harbi, Suojin Wang, [Xiangliang Zhang](#), "A PCA-Based Change Detection Framework for Multidimensional Data Streams". 21st ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2015**), pp. 935 - 944, Sydney, Australia, August 10-13, 2015 (acceptance rate=159/819=19.4%).