

XIANGLIANG ZHANG, Ph.D.

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WORK EXPERIENCE

2011 –
KAUST
Assistant Professor

2010 – 2011
KAUST
Research Scientist

2010
**NORWEGIAN UNIVERSITY OF
SCIENCE AND TECHNOLOGY**
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

Machine Learning, Data Mining, Pattern Classification, Streaming Data Processing, HPC, Cloud computing and management, Social Networks, Recommender Systems, Computer and Network Security, Performance Analysis & Optimization.

EDUCATION

2010
**INRIA AND UNIVERSITY PARIS-SUD
11, FRANCE**
Computer Science (highest honors)
Ph.D.

2006
XI'AN JIAOTONG UNIVERSITY, CHINA
Electronic Engineering
M.S.

2003
XI'AN JIAOTONG UNIVERSITY, CHINA
Information and Communication
Engineering
B.S.

SELECTED AWARDS

2010
**CHINESE GOVERNMENT AWARD FOR
OUTSTANDING SELF-FINANCED
STUDENTS ABROAD**

2009
**ERCIM "ALAIN
BENSOUSSAN" FELLOWSHIP**

2006
ECCAI TRAVEL AWARD

SUPERVISING RESEARCH

2012 -
HAI HUANG
Postdoctoral research fellow

2011 -
SHUAI ZHENG
Ph.D. candidate

2011 -
BASMA AL-HARBI
Ph.D. candidate

2011 -
ABDULHAKIM QAHTAN
Ph.D. candidate

2011
SHUAI ZHENG
M.S., co-supervised

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

VISITING

November 2011
MICROSOFT RESEARCH ASIA
Visiting Professor

August 2011
TEXAS A&M UNIVERSITY
Visiting Professor

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

July – August 2010
UNIVERSITY OF LUXEMBOURG
Visiting Researcher

January 2008
MASARYK UNIVERSITY
Visiting Research Student

TEACHING

Fall 2011, Fall 2010
**COMPUTATIONAL METHODS IN DATA
MINING**

Spring 2012, Spring 2011
MACHINE LEARNING

RESEARCH PROJECTS

2011-2016

SOLE PI

Algorithms and applications of machine intelligence and knowledge discovery

KAUST BASE

>1.7M USD

2012

PI

(with PI Hani Jamjoom at IBM Watson)
LIQUIDx - An Elasticity Framework for High Performance Computing Clouds

KAUST-IBM JOINT PROJECT

657K USD

PROFESSIONAL ACTIVITIES

Guest Editor

IEEE NETWORK

Technical Program Committee Member

SSDBM' 2011

ICMLA' 2011

KAUST-WEP' 2011

ADMA' 2011

Membership

PASCAL ECCAI IEEE

SELECTED 10 RECENT PUBLICATIONS

1. [Xiangliang Zhang](#), Zon-Yin Shae, Shuai Zheng, Hani Jamjoom, "Virtual Machine Migration in an Over-committed Cloud". *13th IEEE/IFIP Network Operations and Management Symposium (NOMS' 2012)*, Hawaii, April 2012.
2. Shuai Zheng, Zon-Yin Shae, [Xiangliang Zhang](#), Hani Jamjoom, Liana Fong, "Analysis and Modeling of Social Influence in High Performance Computing Workloads". *17th International European Conference on Parallel and Distributed Computing (Euro-Par'2011)*, pp. 193-204, Bordeaux, France, August 2011.
3. [Xiangliang Zhang](#), Wei Wang, Kjetil Nørnvåg, Michèle Sebag, "K-AP: Generating Specified K Clusters by Efficient Affinity Propagation", *10th IEEE International Conference on Data Mining (ICDM' 2010)*, pp. 1187-1192, Sydney, Australia, 14 -17 December 2010 .
4. Cyril Furtlehner, Michèle Sebag, [Xiangliang Zhang](#), "Scaling Analysis of Affinity Propagation", *Physical Review E*, vol.81, no.6. 066102 (14 pages), 2010.
5. [Xiangliang Zhang](#), Cyril Furtlehner, Julien Perez, Cécile Germain, Michèle Sebag, "Toward Autonomic Grids: Analyzing the Job Flow with Affinity Streaming". *15th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD'2009)*, pp. 987-996, Paris, France, June 28 - July 1, 2009.
6. [Xiangliang Zhang](#), Michèle Sebag, Cécile Germain, "Multi-scale Realtime Grid Monitoring with Job Stream Mining". *9th IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing (CCGrid'2009)*, pp. 420-427, Shanghai, China, 18-21 May 2009.
7. Wei Wang, [Xiangliang Zhang](#), Sylvain Gombault, "Constructing Attribute Weights from Audit Data for Effective Intrusion Detection", *Journal of Systems and Software*, Elsevier, vol.82, no.12, pp.1974-1981, 2009.
8. Xiaohong Guan, Wei Wang, [Xiangliang Zhang](#), "Fast Intrusion Detection Based on a Non-negative Matrix Factorization Model". *Journal of Network and Computer Applications*, Elsevier, vol. 32, no. 1, pp.31-44, 2009.
9. [Xiangliang Zhang](#), Cyril Furtlehner, Michèle Sebag, "Data streaming with Affinity propagation". *European Conf. on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD'2008)*, pp. 628-643, Antwerp, Belgium, 15 -19 September 2008.
10. Wei Wang, Xiaohong Guan, [Xiangliang Zhang](#), "Processing of massive audit data streams for real-time anomaly intrusion detection", *Computer Communications*, Elsevier, vol. 31, no. 1, pp. 58-72, 2008.