

Lianhua CHI

CONTACT	Level 19, 60 City Rd, Southbank IBM Research Victoria, 3006, Australia	Email: lianhuac@au1.ibm.com IBM Homepage: http://goo.gl/YxPhOu Personal Homepage: https://lianhua1221.github.io/
EDUCATION	<p>University of Technology Sydney, Sydney, NSW, Australia</p> <p><i>Doctor of Philosophy (Information Technology - Machine Learning)</i> Feb 2013 – Aug 2015</p> <p>Huazhong University of Science and Technology, Wuhan, Hubei, China</p> <p><i>Doctor of Philosophy (Computer Software and Theory - Data Mining)</i> Sep 2009 – Sep 2015</p> <p>Huazhong University of Science and Technology, Wuhan, Hubei, China</p> <p><i>Master Degree Candidate (Computer Software and Theory - Database)</i> Sep 2008 – Jul 2009</p> <p>Wuhan University of Science and Technology, Wuhan, Hubei, China</p> <p><i>Bachelor of Engineering (Computer Science and Technology)</i> Sep 2004 – Jul 2008</p> <p>Wuhan University of Science and Technology, Wuhan, Hubei, China</p> <p><i>Bachelor of Literature (English)</i> Sep 2005 – Jul 2008</p>	
AWARDS	<p>Young Global Changer Award in 2017 by Think Summit GLOBAL SOLUTIONS - G20</p> <p>Romberg Grant Award in 2016 by Heidelberg Laureate Forum and University of Heidelberg</p> <p>One of Top 200 Young Researchers Award in 2016 by Heidelberg Laureate Forum</p> <p>First Patent Application Invention Achievement Award in 2016 by IBM</p> <p>Best Paper Award in 2013 by 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining</p> <p>ARC Discovery Scholarship Award in 2013 by University of Technology Sydney</p> <p>Outstanding Graduate Student Award in 2010 by Huazhong University of Science and Technology</p> <p>Outstanding Graduates Award in 2008 by Wuhan University of Science and Technology</p> <p>Certified Software Design Engineer in 2007 by China</p> <p>Excellent Student Pacesetter Award in 2005 by Wuhan University of Science and Technology</p>	
WORK EXPERIENCE	<p>IBM Research, Melbourne, Victoria, Australia</p> <p><i>Postdoctoral Research Scientist</i> May 2015 – Current</p> <p><i>Responsibilities:</i></p> <ul style="list-style-type: none">• Developing and evaluating data correlation analytics on open source datasets from different sectors• Analysing big data in social media and evaluating event impacts on time series.• Optimising hospital resource management with machine learning techniques and SPSS• Working on Watson Education and Watson Health <p><i>Achievements:</i></p> <ul style="list-style-type: none">• 7 patents (3 filed, 4 submitted)• 4 papers published, 2 abstracts accepted, 2 journal accepted (impact factor: one is 8.82 and the other is 7.384), 1 journal submitted, 1 conference paper submitted• Supervised 2 interns for the Geotagger project and Event API project with successful demos	

- Developed an Alpha-maturity asset
- Received the "put the client first" recognition in IBM Recognition Centre

University of New South Wales, Sydney, NSW, Australia

Data Specialist

Apr 2015– May 2015

Responsibilities:

- Exploration, interpretation and visualisation of Massive Open Online Courses (MOOC) data

University of Technology Sydney, Sydney, NSW, Australia

Visiting Researcher

Mar 2012– Feb 2013

Responsibilities:

- Collaborated with my colleagues and supervisors to solve existing problems and develop new theories on big data analysis

DaMeng Database Co., Ltd., Wuhan, Hubei, China

Software Engineer

Jul 2008– Mar 2011

Responsibilities:

- Designed the OLAP system interface
- Programmed OLAP application using Java, developing the data warehouse product
- Managed and designed data warehouse, processing a variety of large-scale data from different data platforms

Foreign Economic and Technological Cooperation Promotion Association, Shenzhen, Guangdong, China

Database Trainer

Jun 2010– Dec 2011

Responsibilities:

- Developed training schedules for database class on request
- Taught students how to correctly use database
- Managed classroom, software and network setup
- Communicated with students to ensure that training goes smoothly

PATENTS

Lianhua Chi, Alessio Bonti, "SYSTEM, METHOD AND COMPUTER PROGRAM FOR A COGNITIVE MEDIA STORY EXTRACTOR AND VIDEO COMPOSER", US YOR920161026US1, filed 2016.

Lianhua Chi, Bo Han, Anna Phan, Chris Butler, Juerg von Kaenel, "SYSTEM AND METHOD FOR UNSTRUCTURED METADATA CORRELATION", US YOR920160975US1, filed 2017

Lianhua Chi, Alessio Bonti, "SYBIL IDENTIFICATION MECHANISM FOR FRAUD DOCUMENTS DETECTION THROUGH COGNITIVE BASED PERSONAL ENCRYPTION KEY", filed 2017

SELECTED JOURNAL PAPERS

Lianhua Chi, Bin Li, Xingquan Zhu, Shirui Pan, Ling Chen, "Hashing for Adaptive Real-time Graph Stream Classification with Concept Drifts", In *IEEE Transactions on Cybernetics*, 2017.

Lianhua Chi, Xingquan Zhu, "Hashing Techniques: A Survey and Taxonomy", In *ACM Computing Survey*, 2017.

SELECTED CONFERENCE AND WORKSHOP PAPERS

Lianhua Chi, Saket Sathe, Bo Han, Yun Wang, "A Novel Method for Assessing Event Impacts on Event-Driven Time Series", in *IEEE International Workshop on Data Mining for Service in ICDM 2016*, 2016

Lianhua Chi, Bo Han, Yun Wang, "Open Problem: Accurately Measuring Event Impacts on Time Series", in *the 2nd SIGKDD Workshop on Mining and Learning from Time Series in KDD16*, 2016

Lianhua Chi, Kwan Hui Lim, Nebula Alam, Chris Butler, "Geolocation Prediction in Twitter using Location Indicative Words and Textual Features", in *the 2nd Workshop on Noisy User-generated Text (W-NUT)*, 2016, pp. 227

Bo Han, Antonio Jose Jimeno Yepes, Andrew MacKinlay and Lianhua Chi, “Temporal Modelling of Geospatial Words in Twitter”, in *Australasian Language Technology Association Workshop*, 2016, pp. 133

Lianhua Chi, Bin Li, Xingquan Zhu, “Context-Preserving Hashing for Fast Text Classification”, in *SIAM International Conference on Data Mining*, 100–108, Philadelphia, Pennsylvania, USA, 2014.

Lianhua Chi, Bin Li, Xingquan Zhu, “Fast Graph Stream Classification Using Discriminative Clique Hashing”, In *Pacific-Asia Conference on Knowledge Discovery and Data Mining*, 225–236, Gold Coast, Australia, 2013. **(Best Long Paper)**

SELECTED PROFESSIONAL SERVICES

- *Organising Committee, Program Chair (Application Track)* - AusDM 2017: The 15th Australasian Data Mining Conference
- *Program Committee Member (Application Track)* - AusDM 2016: The 14th Australasian Data Mining Conference
- *Reviewer* - WWWJ: World Wide Web Journal
- *Reviewer* - IEEE Intelligent Systems
- *Reviewer* - Australasian Journal of Information Systems

SKILLS

- Critical and creative thinking
- Experienced data analyst specialised in hash-based methods and graph stream mining
- Proficient in C; Experienced in Python, C++, R, Java and Matlab
- HPC cluster coding experience

EXTRA- CURRICULAR ACTIVITIES

- Dancing
- Playing pingpong, badminton
- Short, fast running and long-distance running

REFEREES

Available upon request