

LEXING XIE

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EDUCATION BACKGROUND

Columbia University, New York, NY	Electrical Engineering	PhD	Aug 2005
Thesis: "Unsupervised Pattern Discovery for Multimedia Sequences" Advisor: Shih-Fu Chang			
Columbia University, New York, NY	Electrical Engineering	MS	Dec 2001
Tsinghua University, Beijing, China	Electronic Engineering	BE	June 2000

EMPLOYMENT HISTORY

2010.12 -	Lecturer-Senior Lecturer-Associate Professor Computer Science, Australian National University
2007-2010	Research Staff Member, IBM T J Watson Research Center, Hawthorne, NY
2007-2009	Adjunct Assistant Professor, Dept. of Electrical Engineering, Columbia University.
2005-2006	Josef Raviv Postdoc Fellow, IBM T J Watson Research Center.
2003 summer	Research Intern, Microsoft Research, Cambridge, UK.

RESEARCH INTERESTS

- Social media analysis, multimedia knowledge representation, vision and language
- Machine learning on structured data

SELECTED AWARDS AND HONORS

- **IEEE Circuits and Systems Society Distinguished Lecturer**, 2016-2017
- **Grand Challenge Multimodal Award**, ACM Multimedia (ACM MM), Nara, Japan, Nov. 2012
- **Best Paper Award**, 2011 IEEE International Conference on Service Operations and Logistics, and Informatics (IEEE SOLI), July 2011, Beijing
- **Best Student Paper Awards**
 - Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) 2015
 - ACM-IEEE Joint Conference on Digital Libraries (JCDL) 2007, July 2007
 - ACM Multimedia 2005 (ACM MM), Singapore, November 2005
 - IEEE International Conference on Image Processing (ICIP) 2004, October 2004.
 - ACM Multimedia (ACM MM), Juan Les-Pins, France, Dec. 2002.
- **IBM Patent Challenge Award**, January 2010
- **IBM Research 2005 Josef Raviv Memorial Postdoctoral Fellowship**, Oct 2005- Dec 2006.

SELECTED GRANTS

- US Air Force Research Office, "The Anatomy of Social Media Popularity?" lead PI, USD 555K, 2015-2018
- Data-to-Decision CRC, "Picturing Everyday Knowledge", sole-PI, 2016-2018, AUD 640K
- Australian Research Council Discovery Project, "Analyzing trajectories in complex information spaces" AUD 550K, lead-PI, 2014-2016
- US Air Force Research Office, "What makes a message stick?" sole PI, USD 50K, 2012-2013
- Department of Innovation, Australia-China Science and Research Fund (ACSRF), "Machine Learning for Social Media and Computational Social Science", lead PI, A\$86K, Apr-Oct 2013

- IARPA ALADDIN Program on Video Event Recognition, key personnel, 2010-11
- IBM First-of-a-kind project “PSTAR: Platform for Spatial Temporal Analysis and Reasoning” key personnel, 2009-2010

SELECTED RECENT PUBLICATIONS

Publications summary: My 60+ cited publications has 3000+ citations, H-index 27. In addition, there are 4 granted and 6 pending patents. Full list at <http://users.cecs.anu.edu.au/~xlx/publications.html>

- [1] M.-A. Rizoiu, L. Xie, T. Caetano, M. Cebrian, "Evolution of Privacy Loss on Wikipedia", ACM Conf. Web Search and Data Mining (WSDM) 2016
- [2] A Mathews, L Xie, X He, "SentiCap: Generating Image Descriptions with Sentiments", AAI 2016, Feb 2016
- [3] H Yu, L Xie, S Sanner, "The Lifecycle of a YouTube Video: Phases, Content and Popularity", AAI Intl. Conf. Weblogs and Social Media (ICWSM) 2015, May 2015
- [4] C Chen, W. Buntine, N. Ding, L. Xie, L. Du, "Differential Topic Models", IEEE Trans. Pattern Analysis and Machine Intelligence (PAMI) Feb, 2015
- [5] L. Xie, X. He, "Picture Tags and World Knowledge", ACM Multimedia, Barcelona, Oct 2013
- [6] S Sedhain, S. Sanner, L. Xie, R Kidd, K Tran, P Christen "Social Affinity Filtering", ACM Conf. on Online Social Networks (COSN), Boston, Oct 2013
- [7] L Xie, A. Natsev, X. He, J. Kender, M. Hill, J. R Smith, "Tracking Large-Scale Video Remix in Real-World Events", IEEE Trans. Multimedia, vol 15 no 6, 1244-1254, Oct 2013
- [8] H Sundaram, L Xie, Y-R Lin, M. De Choudhury, A. Natsev, "Multimedia Semantics: Interactions between Content and Community", invited paper for Proceedings of the IEEE, Sept 2012
- [9] M. Kim, L. Xie, P. Christen, "Tracking Event Diffusion in Social Networks", AAI Intl. Conf. Weblogs and Social Media 2012, June 2012
- [10] J. Noel, S. Sanner, K.-N. Tran, P. Christen, L. Xie, E. Bonilla, E. Abbasnejad, N. Della Penna (2012). New Objectives for Social Collaborative Filtering. Proc. the 21st International Conference on the World Wide Web (WWW-12). Lyon, France.

RECENT INVITED TALKS

- Invited speaker, Microsoft Research Asia Faculty Summit, Seoul, Korea, Nov 2016
- Tutorial speaker, "Learning Knowledge Bases for Text and Multimedia", ACM Multimedia'15
- Invited speaker, Workshop on Frontiers of Multimedia, ACM Multimedia, Oct 2015
- Invited Panelist, at RC33 Intl. Social Science Methodology Conference, Sydney, July 2012
- Invited Speaker, Vision and Multimedia Meeting of New York, June 2012

RECENT PROFESSIONAL SERVICES

- **Editorial Board Member**, PeerJ Computer Science, 2015-
- **Associate Editor**, IEEE Transactions on Multimedia, 2013-2016; ACM TOMM (Trans. Multimedia Comp.), 2012- ; ACM TiiS (Trans. Intelligent Inteaction Sys), 2015-
- **Workshop Chair**, ACM Multimedia 2015-2016, **Tutorial Chair**, ACM Multimedia 2013; **Area Chair**, ACM Multimedia 2011, 2012, 2014
- **Workshop and Tutorial Chair**, ACML, Asian Conf. on Machine Learning, 2013.
- **IBM Research Campus Relationship Manager** for Columbia University, 2008-2010
- **US NSF (National Science Foundation) Referee, IIS and International Program, 2009-2011**
- **TPC Member and Reviewer** for major multimedia, machine learning, web and social media journals and conferences.