

Shuchu Han

CONTACT INFORMATION	4 Independence Way #200 Princeton NJ, USA 08540	<i>Phone:</i> (609) 951-2489 <i>E-mail:</i> shuchu.han@gmail.com <i>Homepage:</i> shuchu.github.io
BACKGROUND	<ul style="list-style-type: none">• Born on October 1984.• Citizen of P.R.China.	
RESEARCH INTERESTS	<ul style="list-style-type: none">• Machine learning and data mining.• Online learning, deep learning and self-taught learning.• Sparse graph representation, data stream mining and graph mining.	
EDUCATION	Stony Brook University (SUNY)	2011-2017
	Ph.D, Computer Science, May 2017 Thesis Title: <i>Sparse Graph Representation and Its Applications.</i> Advisors: Hong Qin, Leman Akoglu (2012-2014)	
	Nanyang Technological University (NTU)	2008-2010
	M.Eng, Computer Science, May 2010 Thesis Title: <i>Quality Tetrahedral Mesh Generation for Volume Data Processing.</i> Advisor: Ying He	
	Shandong University	2005-2008
	M.Eng, Control Theory, May 2008 Thesis Title: <i>Impulsive synchronized chaotic communication system with time delay and parametric mismatch.</i> Advisors: Chengjin Zhang, Changyun Wen (NTU)	
	Xi'an Jiaotong University	1998-2003
HONORS AND AWARDS	Special Class for Gifted Young (1998-2000)	
	B.Eng, Electronic and Information Engineering, July 2003	
	Thesis Title: <i>Wireless File Transfer System Based on Bluetooth Protocol V1.1.</i>	
	Advisor: En-Xin Feng.	
RESEARCH EXPERIENCE	Best Research Paper Award in SIAM Int. Conf. on Data Mining (SDM), 2015	
	Best Student Paper Award in IEEE Int. Conf. on BioInformatics and BioEngineering, 2014	
	President Scholarship for Study Abroad, Shandong University, 2007	
	The Third Prize Scholarship, Xi'an Jiaotong University, 1999	
	Senior Associate Researcher, NEC Labs	2017/06-present
	Manager: Haifeng Chen - Researching on online learning, data stream mining and graph mining related problems	
	Intern Scientist, Yahoo! Research,	2016-2017
	Mentor: Yifan Hu - Text mining, graph embedding, deep learning. - Scientific visualization.	

	Research Assistant, Stony Brook University Advisors: Hong Qin - Researching on sparse graph representation. - Researching on graph mining, graph structure analysis and dense subgraphs mining. Advised by Leman Akoglu.	2012-2015
	Research Assistant, Computational Science Center, Brookhaven National Lab Mentor: Dantong Yu - DOE kbase project(http://kbase.us).	2012-2015
	Research Engineer, National University of Singapore Mentor: Ping Tan - Large scale 3D city scene modeling from laser scanner point clouds.	2010-2011
	Research Engineer, Centre for Signal Processing, NTU Manager: Sre Wee - Video signal processing.	2007-2008
	Research Engineer, SAMSUNG Electronics Ltd., - Electronic CAD design.	2003-2004
TEACHING EXPERIENCE	Teaching Assistant, Stony Brook University, • CSE528, Computer Graphics, 2012 Fall. • CSE306, Operating System, 2012 Spring. • CSE548/AMS542, Analysis of Algorithm, 2011 Fall. • CSE328, Fundamental of Computer Graphics, 2011 Spring. • CSE130, Introduction to Programming in C Language, 2011 Spring.	2011-2012
PROFESSIONAL ACTIVITIES AND SERVICES	Conference external reviewer: CIKM 2017 Vice Present, Computer Science Graduate Student Council (CSGSC), Department of Computer Science, Stony Brook University	2013-2014
JOURNAL PUBLICATIONS	Shuchu Han, Hong Qin, <i>Automatically Redundant Features Removal for Unsupervised Feature Selection via Sparse Feature Graph</i> , (2017) [Submitted] Shuchu Han, Hong Qin, <i>A Greedy Algorithm to Construct Sparse Graph by Using Ranked Dictionary</i> , Int. J. Data Science and Analytics (2016). Shuchu Han, Jiazhi Xia, and Ying He. <i>Constructing hexahedral shell mesh via volumetric polycube map</i> , Computer-Aided Design, 2011.	
CONFERENCE PUBLICATIONS	Shuchu Han, Yifan Hu, Steven Skiena, Baris Coskun, Meizhu Liu, Hong Qin, <i>Generating Look-alike Names For Security Challenges</i> , (2017) [submitted] Juntaing Ye, Shuchu Han, Yifan Hu, Baris Coskun, Meizhu Liu, Hong Qin, Steven Skiena, <i>Nationality Classification using Name Embeddings</i> , (2017) [submitted] Shuchu Han, Yifan Hu, Steven Skiena, Baris Coskun and Meizhu Liu. <i>Generating Look-alike Names via Distributed Representations</i> , Yahoo Tech Pulse, 2016. Shuchu Han and Hong Qin. <i>A Greedy Algorithm to Construct L1 Graph with Ranked Dictionary</i> .	

Pacific-Asia Conference on Knowledge Discovery and Data Mining. Springer International Publishing, 2016.

Shuchu Han and Hong Qin. *Structure Aware L1 Graph for Data Clustering*. Thirtieth AAAI Conference on Artificial Intelligence. 2016.

Hau Chan, Shuchu Han, and Leman Akoglu. *Where graph topology matters: the robust subgraph problem*. Proceedings of the 2015 SIAM international conference on data mining, SDM. Vol. 15. 2015. **(Best Research Paper Award)**.

Shuchu Han, Hao Huang, Hong Qin and Dantong Yu, Locality-Preserving L1-Graph and Its Application in Clustering.(ACM Symposium on Applied Computing, 2015)

Shuchu Han, Hong Qin, and Dantong Yu. *An Improved Ratio-Based (IRB) Batch Effects Removal Algorithm for Cancer Data in a Co-Analysis Framework*. Bioinformatics and Bioengineering (BIBE), 2014 IEEE International Conference on. IEEE, 2014. **(Best Student Paper Award)**.

Shuchu Han, Jiazhi Xia, Ying He. *Hexahedral shell mesh generation by volumetric parameterization*. Proceedings of ACM Symposium of Solid & Physical Modeling(SPM'10), accepted, 2010.

Jiazhi Xia, Ying He, Shuchu Han, Chi-Wing Fu, Feng Luo, Xianfeng Gu. *Parameterization of Star Shaped Volumes Using Green's Functions*, Proceedings of Geometric Modeling and Processing(GMP'10), accepted, 2010.

Jiazhi Xia, Ying He, Xiaotian Yin, Shuchu Han, Xianfeng Gu. *Direct-Product Volumetric Parameterization of Handle bodies via Harmonic Fields*, Proceedings of IEEE International Conference on Shape Modeling(SMI'10), accepted, 2010.

REFEREES

Available upon request