# Miss Lu FAN

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#### **INTERESTS**

Graph Mining, Social Networks, Recommender Systems, Image Processing

Research Assistant  Researching and analyzing an opinion dynamic model so-	R, Hongkong called Naming Game on ada	Oct. 2017-Apr. 2018 aptive networks.
<ul> <li>IVSN Group, ZJUT         Undergraduate Research     </li> <li>Involved in 4 research projects including         1. Improved spectral clustering based on Node2vec features and personalized recommendation.     </li> </ul>		aptive networks.
<ul> <li>Undergraduate Research</li> <li>Involved in 4 research projects including</li> <li>1. Improved spectral clustering based on Node2vec features and personalized recommendation.</li> </ul>	ngzhou Zhoiiang	
Improved spectral clustering based on Node2vec     features and personalized recommendation.	igznou, zacjiang	Sep. 2016-Aug. 2017
on geographical and categorical information.  3. Link prediction using supervised learning.  4. Rating prediction based on MLR and semantic analysis.  • In the process I  • Cleaned data, did exploratory data analysis and generated reports.  • Extracted up to 23 common topology features for the project 3, defined an R structure which works well on both directed or undirected weighted	recommendation technique. Designed the local recompresent in the thesis. Instance completed most of the earthete project 1. Wrapped at to easily subsetting the extend recommender. Visualization. Made most in all 4 projects.  Writing work in the project Published a browser designed and the projects.	learning solutions and ues.  mmendation architecture tigated the direction and experimental research in a single wrapper function correlation matrix and st of the map and figures

## DJI Technology Co., Ltd

Intern

Shenzhen, Guangdong

Jul. 2016-Aug. 2016

Developed and optimized the object detection, tracking and positioning algorithm, make it practical on the DJI
 Matrice 100 drone and won the bronze prize in the championship.

PUBLICATIONS	
Jinyin Chen, Yangyang Wu, Lu Fan, Xiang Lin, Haibin Zheng, Shanqing Yu and Qi Xuan.	IWCSN2017
Improved Spectral Clustering Collaborative Filtering with Node2Vec Technology. 2017	
Chenbo Fu, Minghao Zhao, Lu Fan; Xinyi Chen; Jinyin Chen; Zhefu Wu; Yongxiang Xia;	IEEE TKDE
Qi Xuan. Link Weight Prediction Using Supervised Learning Methods and Its Application	<b>Under Revision</b>
to Yelp Layered Network. 2017	
Jinyin Chen, Yangyang Wu, Lu Fan and Qi Xuan. N2VSCDNNR: A Clustering	Submitted to
Recommender System Based on Node2vec and Rich Information Network. 2018	TKDE
Yewei Yu, Lu Fan, Zhongyuan Ruan, Qi Xuan. Prediction of Restaurant Score Based on	In Progress
Multiple Linear Regression. 2017	

#### **EDUCATION**

#### Information Engineering Department, Zhejiang University of Technology

Sep. 2013- Jun. 2017

Bachelor of Engineering

Grade GPA: 84.2/100 Rank: 17/119

Honors Department Outstanding Thesis 2017

ZJUT Third-class Scholarship

Jun. 2017

2013/14, 2015/16

## **SKILLS**

- Advanced in R
- Experienced in Matlab, C/C++, mySQL, Spark, OpenCV, Cuda and Linux
- Experienced in Data Mining, Implementing Machine Learning Solutions and Recommenders, Parallelized computing and Visualization
- Productivity Tools Seeker

APPENDIX			
Individual	• Extracted the MFCC and other three common audio features over 700+ bird	Mar. 2016	
Project	song records. Developed an SVM classifier over 6 kinds of birds.	-Jun. 2016	
	• Detected and tracked cars in video, count cars in flow and exam the speed of	Feb. 2016	
	the vehicles, developed using Matlab and mean-shift algorithms.		
Eglish	• Cet-6: 517, Toefl: 83, Speak fluent English.		
Control	<ul> <li>Developed an oven temperature controller based on Cortex M4.</li> </ul>	Jun. 2016	
Theroy &	• Developed a matlab user interface to visualize the performance of linear	May. 2016	
Embedded	control model.		
System	<ul> <li>Developed a game application based on development board TM4C1294.</li> </ul>	Sep. 2015	
	• Tested five controller based on Matlab Simulink. Emulation based on	May. 2014	
	GML2001 maglev levitation ball systems and wrote part of documents.	-Sep. 2015	
Habit	<ul> <li>ZJUT Arial Radio Control Model Team Member, build and control owned</li> </ul>	Mar. 2013	
	drones and fixed wings, won the third prize in RC model control events,	-Current	
	China Aeromodelling Design Challenge in Oct. 2015.		
Volunteer &	• Planned and Started the volunteer project of helping retired old to use	Jul. 2014	
Organizatioal	modern high tech devices. Up to now it has become a long term project and		
capability	services hundreds of times.		
	• Planned and arranged two ZJUT eyas cup speech contest, one ZJUT	Oct. 2013	
	Zongheng cup debate competition and multiple Volunteer activities.	-Jan. 2015	



