

# Curriculum Vitae

---

## Chenglin Xu

School of Computer Science and Engineering, Nanyang Technological University

**Phone:** +65-83554648

**Email:** [xuchenglin28@gmail.com](mailto:xuchenglin28@gmail.com), [xuchenglin@ntu.edu.sg](mailto:xuchenglin@ntu.edu.sg)

**Address:** #N4-B1c-17, MICL, 50 Nanyang Avenue, Singapore (639798)

---

### Education

- |   |                       |
|---|-----------------------|
| <b>Nanyang Technological University (NTU), Singapore</b>                            | Jan. 2016 ~ present   |
| • PhD candidate supervised by <b>A/P Eng Siong Chng, Prof. Haizhou Li (NUS)</b>     |                       |
| <b>Northwestern Polytechnical University (NPU), China</b>                           | Sep. 2012 ~ Apr. 2015 |
| • M.Phil. in Computer Application and Technology supervised by <b>Prof. Lei Xie</b> |                       |
| <b>Northwestern Polytechnical University (NPU), China</b>                           | Sep. 2008 ~ Jul. 2012 |
| • B.Eng. in Software Engineering  |                       |

### Experiences

- |  |                       |
|--|-----------------------|
| <b>Nanyang Technological University, Singapore</b> | Oct. 2013 ~ Apr. 2014 |
| • Exchange Student in Temasek Lab@NTU              |                       |

### Research Interests

Robust Speech Recognition, Speech Enhancement, Source Separation, Beamforming, and Deep Learning

### Honors and Awards

- 2015:** Excellent Graduation Thesis of NPU  
**2013/2014:** First Prize Postgraduate Scholarship of NPU  
**2013:** Wu Yajun Special Scholarship in NPU  
**2012:** Excellent Graduate Student Award in NPU  
**2010:** National Encouragement Scholarship  
**2009:** Ling Shan Special Scholarship  
**2011/2010/2009:** Outstanding Undergraduate Student (Cadre) Scholarship in NPU

### Publications

#### Journals

1. **Chenglin Xu**, Lei Xie, Xiong Xiao, "A Bidirectional LSTM Approach with Word Embeddings for Sentence Boundary Detection", in Journal of Signal Processing Systems, 2017.

#### Conferences

1. Wei Rao, **Chenglin Xu**, Eng Siong Chng, Haizhou Li, "Target Speaker Extraction for Multi-Talker Speaker Verification", in Interspeech 2019.
2. **Chenglin Xu**, Wei Rao, Eng Siong Chng, Haizhou Li, "Optimization of Speaker Extraction Neural Network with Magnitude and Temporal Spectrum Approximation Loss", in ICASSP 2019.
3. **Chenglin Xu**, Wei Rao, Eng Siong Chng, Haizhou Li, "A Shifted Delta Coefficient Objective for Monaural

Speech Separation using Multi-task Learning”, in Interspeech 2018, pp 3479-3483.

4. **Chenglin Xu**, Wei Rao, Xiong Xiao, Eng Siong Chng, Haizhou Li, “Single Channel Speech Separation with Constrained Utterance Level Permutation Invariant Training Using Grid LSTM”, in ICASSP 2018, pp 6-10, Calgary, Canada.
5. Wei Rao, Zhi Hao Lim, Qing Wang, **Chenglin Xu**, Xiaohai Tian, Eng Siong Chng, Haizhou Li, “Investigation of Fixed-dimensional Speech Representations for Real-time Speech Emotion Recognition System”, in ICOT 2017, Singapore.
6. **Chenglin Xu**, Xiong Xiao, Sining Sun, Wei Rao, Eng Siong Chng, Haizhou Li, “Weighted Spatial Covariance Matrix Estimation for MUSIC based TDOA Estimation of Speech Sources”, in INTERSPEECH 2017, pp 1894-1898, Stockholm, Sweden.
7. Kong Aik Lee, Ville Hautamaki, Tomi Kinnunen, Anthony Larcher, Chunlei Zhang, Andreas Nautsch, Themis Stafylakis, Gang Liu, Mickael Rouvier, Wei Rao, Federico Alegre, Jianbo Ma, Manwai Mak, Achintya Kumar Sarkar, Héctor Delgado, Rahim Saeidi, Hagai Aronowitz, Aleksandr Sizov, hanwu sun, Guangsen Wang, Trung Hieu Nguyen, Bin Ma, Ville Vestman, Md Sahidullah, Miikka Halonen, Anssi Kanervisto, Gael Le Lan, Fahimeh Bahmaninezhad, Sergey Isadskiy, Christian Rathgeb, Christoph Busch, Georgios Tzimiropoulos, Qi Qian, Zhibin Wang, Qingen Zhao, Tianzhou Wang, Hao Li, Jian Xue, Shenghuo Zhu, Rong Jin, Tuo Zhao, Pierre-Michel Bousquet, Moez Ajili, waad ben kheder, Driss Matrouf, Zhi Hao Lim, **Chenglin Xu**, Haihua Xu, Xiong Xiao, Eng Siong Chng, Benoit Fauve, Vidhyasaharan Sethu, Kaavya Sriskandaraja, W. W. Lin, Zheng-Hua Tan, Dennis Alexander Lehmann Thomsen, Massimiliano Todisco, Nicholas Evans, Haizhou Li, John H.L. Hansen, Jean-Francois Bonastre and Eliathamby Ambikairajah, “The I4U Mega Fusion and Collaboration for NIST Speaker Recognition Evaluation 2016”, in INTERSPEECH 2017, pp 1328-1332, Stockholm, Sweden.
8. Kong Aik Lee, Hanwu Sun, Aleksandr Sizov, Guangsen Wang, Trung Hieu Nguyen, Bin Ma, Haizhou Li, Wei Rao, Zhi Hao Lim, **Chenglin Xu**, Haihua Xu, Xiong Xiao, Eng Siong Chng. “SINGA SUBMISSION TO THE 2016 NIST SPEAKER RECOGNITION EVALUATION”. Paper presented at 2016 NIST Speaker Recognition Evaluation Workshop, Dec. 2016, San Diego, California, US.
9. Wei Rao, Xiong Xiao, **Chenglin Xu**, Haihua Xu, Kong Air Lee, Eng Siong Chng, and Haizhou Li. "Neural Networks based Channel Compensation for I-Vector Speaker Verification". In ISCSLP 2016, Tianjin, China.
10. Xiong Xiao, **Chenglin Xu**, Zhaofeng Zhang, Shengkui Zhao, Sining Sun, Shinji Watanabe, Longbiao Wang, Lei Xie, Douglas L. Jones, Eng Siong Chng, Haizhou Li, “A study of learning based beamforming methods for speech recognition”, in CHiME4 Workshop, Sep. 2016.
11. Kong Lee, Haizhou Li, Li Deng, Ville Hautamäki, Wei Rao, Xiong Xiao, Anthony Larcher, Hanwu Sun, Trung Nguyen, Guangsen Wang, Aleksandr Sizov, Jianshu Chen, Ivan Kukanov, Amir Poorjam, Trung Trong, **Chenglin Xu**, Hai-Hua Xu, Bin Ma, Eng-Siong Chng, Sylvain Meignier, “The 2015 NIST Language Recognition Evaluation: the Shared View of I2R, Fantastic4 and SingaMS”, INTERSPEECH 2016, pp. 3211-3215, Sep. 2016, ISCA.
12. Guangpu Huang, **Chenglin Xu**, Xiong Xiao, Lei Xie, Eng Siong Chng and Haizhou Li, “Multi-view features in a dnn-crf model for improved sentence unit detection on English broadcast news”, In APSIPA ASC 2014, Siem Reap, Cambodia, 2014.
13. **Chenglin Xu**, Lei Xie and Zhonghua Fu, “Sentence boundary detection in Chinese broadcast news using conditional random fields and prosodic features”, In ChianSIP 2014, Xi'an, China.
14. **Chenglin Xu**, Lei Xie, Guangpu Huang, Xiong Xiao, Eng Siong Chng and Haizhou Li, “A deep neural network approach for sentence boundary detection in broadcast news”, In INTERSPEECH 2014, Singapore.
15. Lei Xie, **Chenglin Xu** and Xiaoxuan Wang, "Prosody-based Sentence Boundary Detection in Chinese Broadcast News", ISCSLP, Hong Kong, China, Dec.5-8, 2012.