

Xingyi Song's CV

Contact Information

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Research Interests

Machine Translation, Natural Language Processing , Machine learning

Research Experience

- 2016 - current: **Research Associate**, *NLP Research Group, University of Sheffield*
My current work involved in a multi-million Euro project K-connect, I'm duty is associate with Dr. Angus to conduct research on medical domain NLP algorithms.
- 2016 - 2016: **Part time Research Assistant**, *NLP Research Group, University of Sheffield*
During this work my duty was to assist research activity conducted by Dr. Angus.
- 2013 - 2016: **Part time Research Computing Support Officer**, *CICS, University of Sheffield*
During this work my duties were: software maintenance for high performance cluster 'Iceberg' at University of Sheffield and System maintenance for psychology department cluster 'ACE2' at University of Sheffield

Teaching Experience

- 2018, Lecturer at Data Science for Document Analysis and Understanding Summer School, Saclay and Paris, France
- 2018, Teaching Assistant at 11th GATE Training Course: Large Scale Text and Social Media Analytics with GATE, University of Sheffield
- 2017, Teaching Assistant at 10th GATE Training Course: Mining social media content with GATE, University of Sheffield
- 2011-2012 Demonstrator at COM 2004/3004 Data Driven Computing, Computer Science, University of Sheffield
- 2012-2013 Demonstrator at COM 160/161 Introduction to Programming and Problem-Solving, Computer Science, University of Sheffield

Independent Consultant Experience

- 2017-current **Speech and NLP Scientist**, *Sentient Machines, London*
I designed core components for Sentient Machines pipelines, include speech emotion classifier and call reason grouping algorithm.
- 2016-current **Machine Learning Specialist**, *HangShu Intelligent Ltd., ShangHai*
I provided the essential tools and solutions for HangShu Intelligent, include dimension reduction tool and faulty classification algorithms.
- 2015-2016 **Machine Translation Specialist**, *Iconic Translation Machine, Dublin*
I focused on Iconic clients specific domain needs and tuning the translation engines to translate content in those areas accurately and efficiently.

Education

The University of Sheffield, Sheffield, UK

Ph.D. ,

Computer Science, December 2010 - April 2015

- Thesis Topic: *Training Machine Translation for Human Acceptability*

- Supervisors: Professor Lucia Specia and Dr Trevor Cohn
- Area of Study: Machine Translation, Natural Language Processing

MSc (with Distinction),

Computer Science, September 2009 - September 2010

- Thesis Topic: *Source Side Reordering in Statistical Machine Translation*
- Supervisor: Dr Trevor Cohn
- Area of Study: Speech and Language Processing

BEng (with Class One Honor),

Automatic Control and System Engineering, September 2006 -July 2009

- Thesis Topic: *The Application of Iterative Identification Methods to the Near Infrared Spectroscopy Analysis of Brain Hemodynamics*
- Supervisor: Professor Zi-Qiang Lang
- Area of Study: System and Control

Relevant Training

- 2011, Lisbon Machine Learning School
- 2016, Gate Summer School

Awards

- NCUK Scholarship, 2006-2009

Research Activities

- Reviewer for THE WEB CONFERENCE 2019
- Reviewer for Journal of Natural Language Engineering, 2018
- Reviewer for International Conference on Language Resources and Evaluation 2018
- Reviewer for BioNlp 2017
- Reviewer for International Conference on Computational Linguistics 2016,2018

Publications

- Linwei He, Matthew Gilbert, **Xingyi Song**. A Python script for adaptive layout optimization of trusses. In: *Structural and Multidisciplinary Optimization*, 2019
- Genevieve Gorrell, **Xingyi Song**, Angus Roberts. Bio-YODIE: A Named Entity Linking System for Biomedical Text. In: *arXiv:1811.04860*, 2018
- Xingyi Song**, Johann Petrak, Angus Roberts. A Deep Neural Network Sentence Level Classification Method with Context Information. In: *EMNLP*, 2018
- Xingyi Song**, Johnny Downs, Sumithra Velupillai, Rachel Holden, Maxim Kikoler, Rina Dutta, Angus Roberts. Using the Big Picture A Deep and Distant Approach to Classification of Suicidal Ideation in Autism Spectrum Disorder In: *UK Healthcare Text Analytics Conference*, 2018
- Richard Jackson, Asha Agrawal, Kenneth Lui, Amos Folarin, Honghan Wu, Tudor Groza, Angus Roberts, Genevieve Gorrell, **Xingyi Song**, Damian Lewsley, Doug Northwood, Clive Stringer, Robert Stewart, Richard Dobson. CogStack - Experiences Of Deploying Integrated Information Retrieval And Extraction Services In A Large National Health Service Foundation Trust Hospital. In: *Journal of the American Medical Informatics Association*, 2018, DOI: 10.1101/123299
- Ye Jiang, **Xingyi Song**, Jackie Harrison, Shaun Quegan, and Diana Maynard, Comparing Attitudes to Climate Change in the Media using sentimentanalysis based on Latent Dirichlet Allocation. In: *Proceedings of the 2017 EMNLP Workshop: Natural Language Processing meets Journalism* , 2017

Frdric Blain, **Xingyi Song** and Lucia Specia, Sheffield Systems for the English-Romanian WMT Translation Task. In: *Proceedings of the First Conference on Machine Translation, 2016* ,2016.

Xingyi Song, Trevor Cohn and Lucia Specia, Data Selection for Discriminative Training in Statistical Machine Translation. In: *The Seventeenth Annual Conference of the European Association for Machine Translation* ,2014.

Xingyi Song, Trevor Cohn and Lucia Specia, BLEU deconstructed: Designing a Better MT Evaluation Metric. Presented at: *14th International Conference on Intelligent Text Processing and Computational Linguistics* Published at: *International Journal of Computational Linguistics and Applications* ,2013. (**The best metric in WMT12 and WMT13 evaluation campaign**)

Xingyi Song and Trevor Cohn, Regression and ranking based optimisation for sentence level MT evaluation. In: *Proceedings of the Sixth Workshop on Statistical Machine Translation*, 2011.