

# Joseph Chang

## Curriculum Vitae

LTI, Carnegie Mellon University  
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### Technical Keywords

Proficient **Java/Android, Python, C/C++, JavaScript, Web**  
Intermediate **Ruby, Ruby on Rails, Objective-C/iOS, Matlab**

### Education

- 2013–2015 **Master in Language Technologies, Computer Science**, Carnegie Mellon University.  
(exp.) Focus on **Human-Computer Interaction** and **Natural Language Processing**. Won course project competitions for *Algorithms for NLP* and *Language and Statistics*.
- 2010–2012 **M.S., Computer Science**, National Tsing Hua University, GPA 4.23/4.30.  
Focus on **Natural Language Processing** and **Machine Learning**. Published in tier-1 NLP conferences (ACL, NAACL, COLING.)
- 2006–2010 **B.S., Computer Science**, Yuan Ze University, GPA 3.6/4.0.  
Special Project: IC design automation (FPGA technology mapping).

### Selected Work Experience

- April–July 2013 **Search Engineer, Asia-Pacific (fulltime)**, Yahoo Taiwan Inc.  
Yahoo knowledge graph backend and data analysis. Including search log mining, database integration, and a web-based backstage interface. (Python, Hadoop, Web)
- April–June 2012 **Contractor**, OpenMoko Inc.  
Developed a Android client for the social network <https://intelligencia.io>. (Java, Android)
- May–Sept. 2010 **Software Engineer Intern**, Oxlab Inc.  
Developed an open source Android benchmarking platform and server-side visualization called 0xBench, which is used by major smartphone companies and ships with Texas Instrument's development boards.

### Selected Honors and Hackathon Awards

- 8 Aug. 2011 **Presenter**, *Conference for Open Source Coders, Users and Promoters (COSCUP)*.  
Presented project 0xBench in one of the largest OSS conference in Asia. (attendance: 1200)
- First Place **Fun Taipei Mobile App Contest**, Taipei City Government.  
Developed *Taipei Fever*, a Taipei City tour guide app for iOS, Android, and WindowsPhone7. (<http://taipei.zfever.tw>)
- Bronze Medal **National IC/CAD Programming Contest**, Ministry of Education.  
Developed a 3D-IC partitioning algorithm, and implemented in 3000+ lines of C++/STL code. A total of 160 teams participated to compete on runtime and algorithm performance.

- Best Student **Mobile Hero UI Contest**, *Ministry of Economic Affairs*.
- Project Developed *Paper Piano*, an augmented reality virtual instrument for Android. (<http://www.youtube.com/watch?v=kfnd2wnb1Ec>)
- Scholarship **Travel Grants**.
- The Association for Computational Linguistics and Chinese Language Processing
  - Department of Information System and Applications, National Tsing Hua University
  - Department of Computer Science and Engineering, National Yuan Ze University
- Second Place **The 11<sup>th</sup> Trend Micro Programming Contest**, *Trend Micro Inc.*.  
Out of 67 teams that participated.
- Third Place **National Information Security Contest**, *Industrial Technology Research Institute*.  
Won third place out of 149 teams that participated.

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## Selected Publications

Joseph Chang, Shih-ting Huang, Ho-ching Yen, Ming-Jhuan Jiang, Chung-chi Huang, Jason S. Chang, and Ping-che Yang. Patentmt: Summary report of team iii\_cyut\_nthu. December 2011.

Joseph Chang, Richard Tzong-Han Tsai, and Jason S. Chang. Wikisense: Supersense tagging of wikipedia named entities based wordnet. In *Proceedings of the 23rd Pacific Asia Conference on Language, Information and Computation (acceptance rate: 25%)*, pages 72–81, Hong Kong, China, December 2009.

Joseph Chang, Tzu-Hsi Yan, and Richard Tzong-Han Tsai. Minimally supervised question classification and answering based on wordnet and wikipedia. In *Proceedings of the 21st Conference on Computational Linguistics and Speech Processing*, Taichung, Taiwan, August 2009. The Association for Computational Linguistics and Chinese Language Processing.

Joseph Z. Chang and Jason S. Chang. Word root finder: a morphological segmentor based on crf. In *(to appear) Proceedings of the 24th International Conference on Computational Linguistics (Top Conf. in NLP)*, Bombay, Mumbai, India, December 2012.

Joseph Z. Chang, Jason S. Chang, and Roger Jyh-Shing Jang. Learning to find translations and transliterations on the web. In *Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics (acceptance rate: 20%, Top Conf. in NLP)*, pages 130–134, Jeju Island, Korea, July 2012. Association for Computational Linguistics.

Jian-Cheng Wu, Joseph Chang, Yi-Chun Chen, Shih-Ting Huang, Mei-Hua Chen, and Jason S. Chang. Helping our own: Nthu nlplab system description. In *Proceedings of the Seventh Workshop on Building Educational Applications Using NLP (Workshop of Top Conf. in NLP)*, pages 295–301, Montreal, Canada, June 2012. North American Chapter of the Association for Computational Linguistics.