

# Guocheng Niu

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## EDUCATION

**Institute of Computing Technology, Chinese Academy of Sciences**, Beijing, China

- Master of Science (M.S.) in Computer Science Sep 2014 – Jun 2017
  - Research areas: Natural language processing, machine learning

**Harbin Institute of Technology(HIT)**, Harbin, China

- Bachelor of Science (B.S.) in Software Engineering Sep 2010 – Jul 2014
  - Score: 88.7 (rank top 5%)

## AWARDS

- Merit Student in University of Chinese Academy of Sciences 2016
- ACM/ICPC Asia Regional Contest Beijing Onsite, Silver Medal, Rank 17th 2015
- ACM/ICPC EC-Final Shanghai, Bronze Medal 2015
- People scholarships, College scholarships 2010 – 2014

## INTERESTS

Natural language processing, data mining, machine learning.

## EXPERIENCE

**HIT-SCIR**, Harbin, China

Sep 2013 – Jun 2014

- HIT-SCIR is short for Social computing and Information Retrieval Research Center in HIT
- Worked with Professor Wanxiang Che, on Chinese tagging

**Neusoft Group Ltd.**, Software Engineer Intern, Dalian, China

Jul 2012 – Aug 2012

- Development of Electronic Classroom based on Linux and C Language

## PROJECTS

**IctLapShell**, Independent development, [c++]

Feb 2016 – Jun 2016

IctLapShell is a general distributed http service framework for functional components. It is expected to help c/c++ component developers quickly design a stable, robust, and efficient Restful Service . And it is easy to be extended to a distributed version.

- Use thrift as tcp threads-pooling layer, libevhttp as http threads-pooling layer, zookeeper as service detection and load balancer

**SeqLab4zh**, Independent development, [c++]

Mar 2014 – Jun 2014

SeqLab4zh is a Chinese word segmentation(ws) and part-of-speech tagging(pos) system based on perception. Treat the ws and pos as a sequence tagging problem, using perceptron as the training algorithm, viterbi as the decoding algorithm, using the combination of dictionary and statistical methods to improve the field of adaptive capacity.

- F value: word segmentation 97.8% , pos tagging: 97.34% ( People's daily January data )

**LTP-Cloud**, Involved in the development, [c++/python]

Sep 2013 – Feb 2014

Language Technology Platform Cloud( LTP-Cloud ) is a Chinese natural language processing service platform developed by HIT-SCIR. It provides users lots of rich, efficient and high accurate natural language processing tools including word segmentation, part of speech tagging, dependency parsing, named entity recognition, semantic role labeling tasks.

- Responsible for the design and launch of new version of restful services, around 1000 registered users and million API access requests per month
- Reconstruct the back-end code, add multi-threading support for modules, throughputs improved from 15 reqs/s to 40 reqs/
- Ltp github repo: <https://github.com/HIT-SCIR/ltp>
- Ltp-Cloud website: <http://www.ltp-cloud.com>