

# Wang Liang

programmer + machine learning + mathematics

## contact Experience

(+86)13810716443  
[mathmad@163.com](mailto:mathmad@163.com)  
[wangliang@gmail.com](mailto:wangliang@gmail.com)  
[github://wangliangster](https://github.com/wangliangster)  
DaXing, Beijing, CN

## languages

Python  
+ numpy/scipy/pandas  
+ scikit-learn  
+ jieba/ltp  
+ gensim/word2vec  
+ matplotlib  
+ PyCharm  
+ IPython  
C/C++  
+ makefile/imake  
+ Serial port, CAN port  
+ CORBA(TAO)  
Jupyter notebook

JSON  
Tk/Tcl  
Perl  
Qt  
C#  
SQL  
Java  
L<sup>A</sup>T<sub>E</sub>X

## computing

Linux  
Redhat/CentOS  
+ rpmbuild  
+ sed/awk/grep/vi  
Ubuntu/Gento  
+ SystemRescueCd  
+ grub  
+ minicom/vnc/ftp/ssh  
Mac OS  
+ Anaconda  
Common  
+ jenkins  
+ git  
+ svn  
+ clearcase

## interests

text analysis  
+ entity resolution  
+ distributional semantics  
unsupervised learning  
+ clustering algorithms  
+ dimensionality reduction  
harmonic analysis  
+ Fourier transfer  
+ Wavelet analysis  
Riemann Hypothesis

10/2018-now

Artificial-Intelligence-for-NLP China Team

NLP Programmer

[News view point extractor](#), [Beijing subway transfer search](#), DFS/BFS graph search, TF-IDF, Deep Learning Algorithm and [wordcloud](#) produce

5/2013-10/2018

GE Healthcare

Lead Software Engineer

Image Quality process and Auto Test tool CI/OEM develop leader, [Discovery XR656 HD](#), [Optima XR646 HD](#), [Discovery XR656 plus](#), [Optima XR646](#) Fixed Radiography Systems Lead Software Integrator, Platform of X-Ray Exposure control system developer, Offline software tools such as Ghost, Linux System-Rescue, ISO build and CD burn strong contributor

4/2011-5/2013

China Nuclear Control Systems Engineering Co., Ltd

Senior Software Engineer

Nicsys1000 system developer, design various HMI with QT for Nuclear Power Plant DCS(Distributed real-time control system), build SVN server for team, bring team member to QT conference for new technology deep dive

6/2010-3/2011

Carestream Healthcare

Software Intern

Carestream X-Ray System DR V5 build for cells setup, and report bug with Bugzilla

## Education

2008-2011

M.A., Computer Science

ShangHai University

Graduate course sequences in Combinatorics/Graph Theory, Probability, plus Computer Engineering

2003-2007

B.S., Mathematics

JXUFE

Pure mathematics concentration. Courses in Analysis, Algebra, Combinatorics, Probability

## Projects

10/2018-now

[News view point extractor](#)

NLP Project

Use word2vec and TF-IDF, probability Algorithms, this project aims to for any input News text, extract the main view point of each speaker, present it as format "who said what"

11/2018-12/2018

[Beijing subway transfer search](#)

Hobby Graph Search Project

Use BFS/DFS/A\* Algorithms, demo a Graph search solution, land on Beijing Subway transfer search

3/2017-5/2018

Reli

GE Project

Reliability is an auto test tool for GE products internal CI, developed with python, tk/tcl, shell scripts, ssl, minicom etc skills under Linux, involved random algorithm testing instead of old tool which use fixed steps method record by VNC, improve coverage rate greatly, own high reputation

10/2013-9/2017

[Everest G1/G2/G3](#)

GE Project

Everest G1/G2/G3 are a sequences of GE's Radiography Family products which developed by global team, as a Lead Software Integrator, I am along with them all the way

5/2013-10/2013

Calypso

GE Project

Calypso is a Platform of exposure control system which used for GE Fixed X-Ray products under Linux

## Miscellaneous

2018

[Rank in Institute #1](#)

GeeksforGeeks

2017

BUILDING ESSENTIAL LEADERSHIP SKILLS (BELS)

Crotonville Leadership

2016

[Fourier series deep explanation](#)

Internal Seminar

2010

[A new solution of node splitting to the R Tree algorithm](#)

IEEE Paper