

Wang Liang

NLP programmer + machine/deep learning + mathematics

Contact Experience

(+86)13810716443
mathmad@163.com
wangliang@gmail.com
DaXing, Beijing, CN

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

Interests

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

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

Education

Algorithms

PCA/SVD/SGD
CNN/RNN/LSTM
DFS/BFS/TF-IDF
NB/LR/SVM
KNN/XGBoost/LDA
Word2Vec/Doc2Vec
DFT/FFT
Tensorflow/Keras/Pytorch

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

GitHub Pages: <https://wangliangster.github.io>

Note: all blue fonts are available links

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
SQL
Java
L^AT_EX

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, ssh, 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

Computing Miscellaneous

Linux 2018 [Rank in Institute #1](#) GeeksforGeeks
+ sed/awk/grep/vi/grub 2017 BUILDING ESSENTIAL LEADERSHIP SKILLS (BELS) Crotonville Leadership
+ SystemRescueCd 2016 [Liang Wang; "Fourier series deep explanation"](#) GE Internal Seminar
+ minicom/vnc/ftp/ssh 2010 [Liang Wang; Songnian Yu; Feng Chen: "A new solution of node splitting to the R Tree algorithm"](#) IEEE
+ Anaconda
Common
+ jenkins
+ git
+ clearcase