

Tianxiao JIANG

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EXPERIENCE

Jan, 2018 PRESENT	Artificial Intelligence Fellow, Insight Data Science <ul style="list-style-type: none">Applied deep learning for automatic text simplification (Tensorflow, LSTM and Attention)Trained 100K data points on a GPU cloud computing platform (Paperspace and Tensorboard)Implemented subword tokenization, reducing the vocabulary size from 120K to 12K (BPE)Surpassing the naive identity model by 6 BLEU score.Delivered an interactive website for the project: www.simpletext.xyz (Bootstrap and Django)
Mar, 2014 PRESENT	Research Assistant, Clinical Neural Engineering Lab, University of Houston <ul style="list-style-type: none">Achieved 99% accuracies on movements classification on brain signal (sparse CSP and LDA)Wrote an open-source software (GPLv3) for neural signal analysis (CNELab)Built a website (http://www.cnelab.org) for the CNELab software (Django and CloudFront)Increased the speed of filtering by 20% using multithreaded programming (C++)Developed a real-time data collection and transmission server (C++ and UDP)
2012-2014	Research Assistant, Pattern Recognition Lab, Shanghai JiaoTong University <ul style="list-style-type: none">Developed a video smoke and invasion detection system (C++, OpenCV, Wavelet and GMM)
2013-2014	Back-end Intern, ELE.ME, Rajax Co <ul style="list-style-type: none">Developed menu recommender system using collaborative filtering (Mahout, Java and JDBC)
2012	Software Engineer Intern, Jindu Co <ul style="list-style-type: none">Improved image registration accuracies (25%) by debugging rotation matrix (C++ and OpenCV)Wrote unit test for the new transformation matrix (C++)Developed and field-tested an AR game based on Microsoft Kinect (C++ and OpenCV)

EDUCATION

Feb 2014 - July 2018	PhD candidate, Biomedical Engineering, University of Houston, USA
Sep 2012 - Feb 2014	MS, Electronic Engineering, Shanghai JiaoTong University, China
Sep 2008 - July 2012	BS, Electronic Engineering, Shanghai JiaoTong University, China

PROJECTS AND CERTIFICATES

- Personal **website** built Sept 2016 (Django, CloudFront, Bootstrap, JQuery, Ajax and PostgreSQL)
- Neural Networks and Deep Learning by deeplearning.ai on Coursera, Certificate earned Aug 2017
- Machine Learning by Stanford University on Coursera, Certificate earned July 2017

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, Matlab, Simulink, R, Javascript, HTML5, CSS and Latex
Others: TensorFlow, NumPy, OpenCV, Pandas, Matplotlib, Multithreading, Socket, Django, Linux and Vim

HOBBIES

Tennis (NTRP 4.0), Half Marathon, Bicycling, Acoustic Guitar and Algorithms