Chen Qian

Contact Information

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Education

Stanford University Sep. 2016 to Present

- M.S in Electrical Engineering (Software and Hardware Systems track)
- **GPA**: 4.0
- relevant coursework: Machine Learning, Programming Abstractions, Design and Analysis of Algorithms, Object-Oriented Systems Design (next quarter), Mining Massive Data Sets (next quarter), Natural Language Processing (next quarter)

Beijing University of Posts and Telecommunications Sep. 2012 to June. 2016

- B.E in Communication Engineering
- **GPA**: 92.11/100 **Major GPA**: 94.24/100
- relevant coursework: Data Structures, Java Programming, Web Application Design&Development, Database Technology and Application

Computer Skills

- Programming Languages
  C++, C, Java, Python, PHP, SQL, HTML, Assembly
- Tools
  MATLAB, scikit-learn, Caffe, LaTeX, SQL Server, Linux

Projects

Stock Price Prediction Based on Machine Learning Sep. 2016 to Dec. 2016

- Designed models based on financial report data and analytical articles data to predict stock price movement.
- Selected features from financial report and applied PCA to remove correlation.
- Analyzed the sentiment of analytical articles using Stanford NLP tool and represented the sentiment in a R^5 vector as the input of our model.
- Built models based on SVM, Naive Bayesian and Boosting using *scikit-learn*, and achieved 69.8% highest prediction accuracy.

Face Recognition through Deep Learning Methods Mar. 2016 to June. 2016

- Built a deep learning model achieving 95% face verification accuracy on LFW.
- Applied batch normalization to improve the learning rate by 250%.
- Compared the performance of model applying deepID2 supervisory signal and model using pure verification signal.
- Applied the model on delicate-scale face verification and achieved 88% accuracy.

Interactive Projection Screen May. 2014 to May. 2015

- Project Aim & Focus: To equip projection with all functions of a touch screen.
- Realized communication among four major modules by Java socket programming.
- Localized users' events by image processing using Java.
- Improved system accuracy to over 95% through algorithm refining.

Self-balancing Robot Based on Arduino June. 2014 to Aug. 2014

- Project Aim & Focus: To design and invent a self-balancing robot based on Arduino.
- Enabled the robot to balance itself using PID method (written in C).
- Enabled the robot to straight forward, turn and adjust its speed under commands (written in C).

Experience

Research Assistant, Institute of Signal Processing, Tsinghua University Sep. 2014 to Jan. 2016

- Leaded project *Sensing and Recognition for MPTP scenario with Noise Uncertainty*.
- Applied GLRT method to handle noise uncertainty and discussed the SNR wall phenomena in our targeted scenario.
- Applied cooperative sensing to improve the sensing performance.
- Finished two papers (one conference & one journal) as the major contributor.

Publications

[1] F. Gao, **C. Qian**, H. Qian, and T. Zhang, "Sensing and recognition for multiple primary power level scenario with noise uncertainty", *IEEE Trans. Veh Tech*, June. 2016, issue. 99.

[2] **C. Qian**, H. Qian and F. Gao, "Spectrum sensing and SNR walls when primary user has multiple power levels," in *Proc. IEEE Int. Conf. Commun. China (ICCC)*, Shenzhen, China, Nov. 2015, pp. 377–382.