## Wei Guo

Contact 175 Yellowstone Drive apt 302 434-327-0610 Charlottesville, VA 22903 Information wg8we@virginia.edu Research Reinforcement Learning, Deep Learning, Machine Learning Interests University of Virginia, Charlottesville, VA **EDUCATION** M.E., Computer Engineering, GPA: 3.69 Dec. 2018 • Core Lessons: Machine Learning, Reinforcement Learning, Cloud Computing, Algorithm, Data Mining • Advisors: Joanne Bechta Dugan, Ph.D. East China Normal University, Shanghai, China B.S., Statistics, GPA: 3.26 Jun. 2016 • Core Lessons: Multivariate Statistics, Regression Analysis, Time Series, Mathematical Statistics, Probability Theory • Thesis: Analysis on the Satisfaction of Farmers to the Construction of High Standard Farmland in 12th Five-year: Case of a Town in Shanghai City Research **Identification of Calories from Food Pictures** Jun. 2018 to Aug. 2018 EXPERIENCE • Detect and record features of food using HOG and LBP. • Build classification models with SVM and CNN. English Poetry Generator with RNN Jun. 2018 to Aug. 2018 • Preprocess the document to fit in the unsupervised generator model. • Build RNN model for predicting the next sentence. **Facial Expression Recognition** May 2018 to Jul. 2018 • Build ANN and CNN model with different sizes and compare the performance. • Optimize the models with the methods of RMSProp and Dropout. Simulation of Process of Thermal Spray Operations Feb. 2018 to Jun. 2018 • Simulate the process of thermal spray operations with Deep Q Network. • Build Temporal Difference model for prediction and Q learning for control. Recommendation System on AWS Sep. 2017 to May 2018 Build recommendation system based on Collaborative Filtering and Neural Network. • Build up the website with JavaScript and deploy the website to AWS. Fraud Detection with Supervised Learning Method Sep. 2017 to Dec. 2017 • Perform feature selection on the data set to reduce the number of attributes used. • Train and test the model with Decision Tree, k-Nearest Neighbor, Random Forest and Adaboost. Publication 1. Wei Guo "Analysis on the Satisfaction of Farmers to the Construction of High Standard Farmland in 12th Five-year: Case of a Town in Shanghai City", Journal of Agrotechnical Economics:39-45, 2016. AWARDS • Outstanding Undergraduate Graduate Thesis May 2016 • Outstanding winner for 17th East China Cup College Students Mathematical Modeling Contest Apr. 2015

Sep. 2015

• Scholarship for Academic Excellence