

Wei Guo

CONTACT INFORMATION	175 Yellowstone Drive apt 302 Charlottesville, VA 22903	434-327-0610 wg8we@virginia.edu
RESEARCH INTERESTS	Deep Learning, Machine Learning, Reinforcement Learning	
EDUCATION	University of Virginia , Charlottesville, VA	
	M.E., Computer Engineering, GPA: 3.69	Dec. 2018
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• Core Lessons: Multivariate Statistics, Regression Analysis, Time Series, Mathematical Statistics, Probability Theory• Thesis: <i>Analysis on the Satisfaction of Farmers to the Construction of High Standard Farmland in 12th Five-year: Case of a Town in Shanghai City</i>	
RESEARCH EXPERIENCE	Identification of Calories from Food Pictures	Jun. 2018 to Aug. 2018
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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, Keqiang Wang “Analysis on the Satisfaction of Farmers to the Construction of High Standard Farmland in 12th Five-year: Case of a Town in Shanghai City”, <i>Journal of Agrotechnical Economics</i> :39–45, 2016.	
AWARDS	<ul style="list-style-type: none">• Outstanding Undergraduate Graduate Thesis• Outstanding winner for 17th East China Cup College Students Mathematical Modeling Contest• Scholarship for Academic Excellence	
		May 2016 Apr. 2015 Sep. 2015