

Yadong Lu

CONTACT INFORMATION	2243 Donald Bren Hall University of California, Irvine	Phone: (518)334-4626 E-mail: yadongl1@uci.edu
INTERESTS	Deep learning algorithms with applications to images and high energy physics, Causal inference.	
EDUCATION	University of California, Irvine , Statistics, 2nd year PhD student GPA: 3.97/4.0, Advisor: Pierre Baldi Sichuan University , Mathematics, B.S. Honor Class, 4 year National Pilot Program Fellowship receipient. National University of Singapore , Applied Math Temasek Foundation Scholarship, one-year study abroad programme.	2016.9-now 2012 - 2016 2014 - 2015
TECHNICAL SKILLS	Programming Languages: Fluent: Python, R; Intermediate: Matlab, C, SAS Deep Learning Related: Tensorflow, Keras, Theano, Pandas, Linux	
TEST SCORES	GRE: Quantitative Reasoning: 170/170, Verbal Reasoning: 157/170	
RESEARCH AND INTERN EXPERIENCES	Sherpa: Hyperparameter Tuning Machine for Neural Networks • Sherpa aims to provide a fast and parallel automatic hyperparameter search framework for training various kinds of deep neural networks. • Lead the development of bayesian optimization algorithms for Sherpa. Antihydrogen Particle Detection by Deep Neural Network • A joint project with ASACUSA at CERN. • Developed a package for analyzing over 3 million real annihilation events generated from ASACUSA experiments. Wrote algorithms to efficiently separated the rising edges within the data. • Propsed resnet-like deep neural network as a novel technique to distinguish antimatter signals from background noise. Our model outperforms the existing vertex construction algorithm. Deep Target Algorithms and Random Backpropagation • With Prof. Pierre Baldi at UCI. • Developed and implemented several deep target learning algorithms and Random Backpropagation (RBP) Rules in both Theano and Tenserflow. Tested the algorithms on several benchmark datasets using multiple GPUs. • Reseach on the proof of convergence properties of RBP algorithms. Constantly explore and evaluate new RBP rules. Quantative Trading Algorithms for Achieving Alpha • Internship at Huaxi Futures Co., Ltd. • Historical data within 3000 trading days was crawled from web using python to backtest trading strategies. Developed and implemented several algorithms to select profitable factors as trading strategies. • Improved the automatic trading system by adding new strategies.	2017.9-now 2017.6-now 2016.9-12 2016.3-6
TEACHING AND PRESENTATION	Teaching Assistant • Serving as teaching assistant for Stats 67 in Spring 2016, and Stats 7 in Fall 2017. Bayesian Causality • Proposed a bayesian framework for causal relation computation. • Present a poster in the workshop: From 'What If?' To 'What Next?' : Causal Inference and Machine Learning for Intelligent Decision Making, NIPS 2017	2016.9-now 2017.12
HOBBIES	I am a competitive Go player (4th dan).	