EDUCATION

The University of Georgia, Athens, GA	August 2013-present
Ph. D. student of Science in Computer Science	Cumulative GPA: 3.95
Courses taken: Massive Mining of Data, Software Engineering, ADV Topics in Data Intensive Computing, Computer	
Network, Machine Learning, Image Processing, Evolutionary Computing, Graph Theory, ADV Biomedical Image Analysis,	
Biomedical Image Analysis, Automata and Formal Language	
Huazhong University of Science and Technolog	y, Wuhan, China August 2009 - June 2013
Bachelor of Control Science and Engineering	Cumulative GPA: 89.01/100, Rank: 11/223
Thesis: Simultaneous Multi-frame Super-resolution Restoration (image processing)	
PROJECT EXPERIENCE	
Big Data and Machine Learning related:	 Machine learning implementations using
 Autism Spectrum Disorder(ASD) related 	 Implemented Naive Bayesian classification algorithm using
Large data mining using Apache Spark	Hadoop API
✓ Used Apache Spark performing high-	 Implemented K-means clustering tool using Apache Spark
speed feature metric computing	 Implemented Stochastic Gradient Descent algorithm using
 Analyzed clustering of brain functional 	Apache Spark
networks in ASD with comparisons to	 Designed a template supervised dictional learning algorithm
control subjects	for fMRI images decomposition
Software engineering related:	
 "Dawg-trades": UGA On-Line Auctioning System project 	
✓ Mastered skills in HTML design, jsp and database ✓ Gained Software development experience	
Deep Learning related:	
Classification using Deep Learning Neural Networks	
✓ Used GPU-accelerated python 3D CNN API to accomplish brain functional networks classification. Publication in TBME	
 Clustering using Deep Convolutional Autoencoder (CAE) obtained features Clustering and CAE to activate logic network features for fine annual activation and the logic network of the logic network features. 	
 Used 3D deep CAE to extract brain network features for fine-granularity atlas construction. Publication in Media Cross Medality Synthesis (From MPL to CT) 	
Cross Wodality Synthesis (From WRI to CI)	d doop note to puth spins CT images from MDI images
• Used multi-view multi-channel Unet base	d deep nets to sythesize CT images from MRI images
SKILLS	
Python, C, C++, Java, Matlab; Keras, Tensorflow, Theano; Hadoop, Spark; MySQL, Linux System Administrator, docker	
RESEARCH and EXCHANGE EXPERIENCE	
Research Student (intern), Siemens Healthineers, I	Malvern PA. 5.2017-8.2017
• Summary: Cross modality synthesis (MRI to CT) Using deep learning nets
Research Assistant, Cortical Architecture Imaging a	and Discovery(CAID) Lab, UGA 8. 2013-present
• Summary: neuroimaging related research using	g computer science techniques including machine learning, big
data and deep learning	
Visiting Student, IDEA lab, UNC Chapel Hill	6.2016-7.2016
• Summary: Group-wise registration for fMRI im	ages
Visiting Student, Biomedical Imaging and Analysis	Joint Lab, NPU, China 7.2015-8.2015
 Summay: Deep learning neural networks (Auto-encoder, RBM) for fMRI image decomposition 	
SELECTED PUBLICATIONS	

- > Yu Zhao, et al.MedIA, 2017, Vol 42, pp200-11. Constructing fine-granularity functional brain network atlases via deep CAE.
- **Yu Zhao**, et. al. IEEE TBME, 2017, Issue 99. Automatic Recognition of fMRI-derived Functional Networks using 3D CNN.
- Yu Zhao, et. al. NeuroImage: Clinical, 2016. vol.12, pp 23-33. Connectome-scale Group-wise Consistent Intrinsic Connectivity Networks Analysis in Autism Spectrum Disorder
- > Yu Zhao, et. al. ISBI, 2017. Template-guided Functional Network Identification via Supervised Dictionary Learning
- > Dehua Ren, Yu Zhao, et. al. ISBI, 2017. 3-D Functional Brain Network Classification using CNNs.
- > Yu Zhao, et. al. ISBI, 2017. A Novel Framework for Groupwise Registration of fMRI Images based on Common Functional Nets.