Weiwen **Xu**

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Master of Science in Artificial Intelligence at University of Georgia. Hands on experienced in **machine learning**, **deep learning**, **natural language processing** and **image processing**. Curious about research and motivated in developing end products. Interested in **data science** as career goal.

Edu**cation**

M.S. in Artificial Intelligence	University of Georgia	*Athens, GA*	*Aug. 2017 - Exp. Aug. 2019*
B.S.(Hons) in Artificial Intelligence	University of Liverpool	*Liverpool, UK*	*Sep. 2015 - June. 2017*
B.S. in Information and Computer Science	XJTLU	*Suzhou, China*	*Sep. 2013 - June. 2015*

Dat**a Science Experience**

Medical Video Cilia Segmentation (Image Analysis and Signal Processing) *Athens, GA*

Dept. of Artificial Intelligence *On-going*

- Combine Long Short-term Memory(LSTM) models with **Fourier Transform** to learn cilia beating frequencies
- Work Convolutional Neurion Network(CNN) model into LSTM to include spatial information supporting segmentation

Kaggle Competition: Inclusive Images Challenge (Multi-label Image Classification) ⚲ *Athens, GA*

Dept. of Artificial Intelligence *Sep. 2018 - Dec. 2018*

- Prepare balance data from original unbalanced data
- Built and applied new multi-layered CNN model with Tensorflow for multi-layered ground truth labels

Web Traffic Time Series Forecasting of Wiki pages (Time series Analysis) ⚲ *Athens, GA*

Dept. of Artificial Intelligence *April 2018 - May 2018*

- Applied Long short-term memory (LSTM) model with Keras to 145k wiki pages in python for analysis and prediction

Scalable Document Classification on Apache Spark (Natural Language Processing) ⚲ *Athens, GA*

Dept. of Artificial Intelligence *Jan. 2018*

- Features mining from text data, feature cleaning with NLTK
- Applied Navie Bayes classifier on **Spark** in python

Real-time Eye and Pupil Tracking (Image Processing, IOS App development) *Liverpool, UK*

Dept. of Computer Science *Oct. 2016 - June 2017*

- Collaborated with local clinic for developing pupil tracking APP in Objective-C on iPad to support stroke diagnose.
- Applied real-time face, eye detection and analysis of image gradient to achieve pupil detection and tracking with **OpenCV** in C++ (embedded in Objective-C).

Wor**k Experience**

Data Scientist Student Assistant *Athens, GA*

University of Georgia *Oct. 2018 - PRESENT*

- **Data modeling** from raw unstructured data and construct interactive **data visualization** for client using **QlikSense**.
- Establish **data processing pipeline** for long-term maintenance and updating.

Image Processing Summer Intern *Shenzhen, China*

Coherent AI *June 2018 - Aug. 2018*

- **Vehicle detection** in traffic images with CNN model.
- Apply U-net CNN model for **hyperspectral image reconstruction** from 3 channel images and improve with **GAN**.

Web IT Student Assistant *Liverpool, UK*

The Brain Charity *Oct. 2015 - June 2017*

- Front-end web development with HTML, CSS and Javascript using the Joomla content management system.

Ski**lls**

Programming	Python, JAVA, C/C++, Javascript, Objective C
Data Science tools	TensorFlow, OpenCV, pySpark, Numpy, Scikit, SciPy, NLTK, Pandas, QlikSense
Data Visualization	Matplotlib, QlikSense, Tableau
Other	GCP(Google Cloud Platform), HTML/CSS, SQL, Microsoft Office (Word, Excel, PowerPoint), Git