Xiangyang Shi

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○ EDUCATION

University of Southern California (USC), California, America   Aug. 2017 – Jun. 2019
- M.S. in Computer Science

Shanghai Jiao Tong University (SJTU), Shanghai, China   Sept. 2013 – Jun. 2017
- B.S. in Information Security
- SJTU 2nd class Scholarship   • Arowana Scholarship   • Guanghua Scholarship
- Certified Professional C++ Programmer by China Computer Foundation

Georgia Tech Atlanta Summer Program, Georgia, America   Jun. 2016 – Aug. 2016

○ INTERNSHIP

SciKnowEngine Group in **Information Sciences Institute**   Sept. 2017 – Sept. 2018
- Built a pipeline to extract Western blots information in biomedical articles
- Proposed a layout-aware YOLO network to decompose subfigures from papers
- Adjusted ISI OCR to restore structural experiment results from Western blots charts

DiSPARITY Group in **Information Sciences Institute**   Oct. 2017 – May. 2018
- Built a pipeline to practice GPS falsify detection for street view images
- Filtered GPS images using Random Forest classifier on Scene Recognizer
- Used SIFT feature for perspective transformation and feature-shared CNN to evaluate similarity between query image and Google Street View

Risk Assurance Dept. in **PwC Ltd. (Shanghai)**   Jul. 2016 – Sept. 2016
- Participated in the penetration test of intranet for METLIFE-CN and Mizuho Bank
- Revised and deployed the Mugsy & ElasticSearch distributed OS log system

○ RESEARCH EXPERIENCES

Dangerous Goods Detection based on CNN   Dec. 2016 – May. 2017
- Collected and regenerated millions of X-ray baggages images with knives, guns or other threats
- Used Caffe with modified GoogLeNet to train a classifier
- Constructed a system to assist security check in Shanghai Metro

Meta-Path based Similarity Analysis for acemap.info   Sept. 2015 – Sept. 2016
- Analyzed similarity between scholars, institutions and journals with heterogeneous network model
- Using Gephi to visualized academic relationship in the field of CS based on our analysis
- Developed a website (more than 100,000 weekly visits) to display our conclusion

Construction of Security System for acemap.info   Jun. 2016 – Dec. 2016
- Used Burp Suite to scan and fix vulnerabilities in our website
- Built a Web Application Firewall via ModSecurity

○ PUBLICATION

- G.Burns, **X.Shi**, Y.Wu, H.Cao and P.Natarajan. *"Towards Evidence Extraction: Analysis of Scientific Figures from Studies of Molecular Interactions"* in SemSci 2018, ISWC, Monterey, California, 2018

○ SKILLS

Programming language: Python, C#, MATLAB, Julia, JavaScript

Tools: Tensorflow, Keras, LaTeX, Kali-Linux, MySQL, Gephi, AWS (EC2, Elastic Beanstalk)