

Jingwei Guo

PHONE: +86 18915419701 EMAIL: adopteruf@outlook.com GITHUB: <https://github.com/Adopteruf>

EDUCATION	Xi'an Jiaotong-Liverpool University Bachelor of Science, Applied Mathematics University of Liverpool Bachelor of Science, Applied Mathematics Academics:	<i>Suzhou, China</i> 2014 - 2018 <i>Suzhou, China</i> 2014 - 2018 GPA(WES): 3.86/4.00
RESEARCH INTEREST	My research interests are deep learning and computer vision. Currently, I am interested in deep learning model in re-identification, image caption, and image segmentation.	
PROFESSIONAL EXPERIENCE	Research Assistant Chromosome Segmentation <ul style="list-style-type: none">Design an data annotation method to reduce the workload of the company.Propose a series of image pre-processing algorithms to clean the raw data from the company.Build an automatic deep learning based chromosome segmentation model.Manage Linux system server. Research Project Vehicle Re-identification <ul style="list-style-type: none">Adopted center loss in deep representation learning model to solve the vehicle re-identification issues.Summarised the result obtained on the modified model into a paper ready for submitting into ICME 2019. Research Intern Summer Undergraduate Research Fellow (SURF) <ul style="list-style-type: none">Applied attention based long-short-term-memory model on indoor action recognition in TensorFlow via Python.Shared a repository of the implemented codes in GITHUB.Delivered a poster presentation in SURF project exhibition. Studying Group Deep Learning Study Group <ul style="list-style-type: none">Group study on the mathematical working mechanisms of GAN, VAE, LSTM and the applications once a week supervised by Professor Bailing Zhang (XJTLU). Research Project Pathological Fiber Extraction on Mice Lung's slices <ul style="list-style-type: none">Analyzed the filtered image to design a thresholding based image extraction algorithm in LAB color space.Designed an optimized algorithm exclusively for removing the overexposure on the binary image obtained by the proposed thresholding based method and a GUI for essential parameters' selection.Applied a patent in STATE INTELLECTUAL PROPERTY OFFICE OF THE P.R.C. Research Project Wound Segmentation	<i>XJTLU&Sano Medical Laboratories,Inc., Suzhou, China</i> Sep. 2018 - present <i>XJTLU, Suzhou, China</i> Sep. 2017 - Jun. 2018 <i>XJTLU, Suzhou, China</i> Jun. 2017 - Aug. 2017 <i>XJTLU, Suzhou, China</i> Apr. 2017 - Jun. 2017 <i>XJTLU, Suzhou, China</i> Sep. 2016 - Dec. 2016 <i>XJTLU, Suzhou, China</i> Jul. 2016 - Aug. 2016

- Designed a k-means based pre-segmentation algorithms on chromatic images in LAB color space.
- Developed an optimized algorithms exclusively for refining the binary image obtained via the designed k-means based algorithms.

Research Intern

XJTLU, Suzhou, China

Summer Undergraduate Research Fellow (SURF)

June. 2016 - Aug. 2016

- Modified the traditional active contour model by designing two self-adaptive coefficients and a new optimization method.
- Applied the designed algorithm on Tongue Segmentation in binary image and summarized it into a conference paper.
- Invited to attend IEEE conference (CISP-BMEI 2016) as the first author and delivered a presentation.

**PUBLICATIONS
& PATENTS**

(Under Review) Sun, H., Su, J., **Guo, J.**, and Yang, Y. LAB based collagen fibers image recognition methodology and system, STATE INTELLECTUAL PROPERTY OFFICE OF THE P.R.C. Request Number: 20170684074.5.

Guo, J., Yang, Y., Wu, Q., Su, J. and Ma, F., Adaptive active contour model based automatic tongue image segmentation IEEE conference. International Congress on Image and Signal Processing, BioMedical Engineering and Informatics, 2016. CISP-BMEI 2016.

SKILLS

Python, Matlab, Java, LATEX, TENSORFLOW, KERAS, Linux