

Jingwei Guo

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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">• Build a data-construction algorithm for solving the deficiency issues in labeled chromosome images.• Design an automatic chromosome segmentation model using deep learning to satisfy the demand of the company. 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