HUINING LIANG

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University of Illinois at Urbana-Champaign	Illinois
<i>MEng.</i> (19Fall) Electrical and Computer Engineering GPA: 3.58/4.0	Dec. 2020 (expected)
Zhejiang University	Zhejiang, China
Chu Kochen Honors College (Top 5% selected students in Zhejiang U	
B.Eng. Electrical Automation GPA: 3.80/4.0	July 2020
Related Course: Artificial Intelligence, Computer Vision, Pattern Recog	nition, Computer Security I
Applied Parallel Programming, Electric Circuit and Electronic Technology	ogy I & II, Signal Analysi
and Processing, Principle and Interface Technology of Micro	roprocessors, Engineering
Electromagnetic Fields & Waves	
RESEARCH EXPERIENCE	
Student Research and Training Program (SRTP):	
Raspberry Pi Based Sound Source Localization and Follow-up Shoot	ing System
Zhejiang University, Hangzhou Python	Mar. 2018 - July 2020
• Design a set of sound source localization and image tracking systematics	em with high precision.
• Apply face recognition to the control process of shooting as an au	ixiliary method.
Photovoltaic Power Generation Prediction and State Assessment Base	ed on Deep Learning
Zhejiang University, Hangzhou Matlab	Sept. 2018 – Dec. 2018
• Build photovoltaic power system prediction and assessment mod	dels based on deep learning
strategy to provide support for efficient operation of photovoltaic	systems.
PROJECTS	-
Semantic Segmentation	
University of Illinois at Urbana-Champaign, Illinois Python	Apr. 2020 – May. 2020
• Build a semantic segmentation model on the Stanford Backgrour	nd Dataset to classify image
pixels into the 9 categories.	
• Train the model with different optimizers and compared the perfo	rmances of the model.
Improving BaseNet on FashionMNIST	
University of Illinois at Urbana-Champaign, Illinois Python	Apr. 2020 – May. 2020
• Create an improved deep net achieving more than 90% accuracy	with judicious architecture
and implementation choices.	
Facial Similarity Recognition with Siamese Neural Network	
University of Illinois at Urbana-Champaign, Illinois Python	Mar. 2020 – May. 2020
• Build a facial similarity recognition system with Siamese Netwo	rk to quantify the similarity
between two given photos.	
Scale-space Blob Detection	
University of Illinois at Urbana-Champaign, Illinois Python	Feb. 2020 – Mar. 2020
• Implement an efficient Laplacian blob detector.	
Colorizing Prokudin-Gorskii Images	
University of Illinois at Urbana-Champaign, Illinois Python	Jan. 2020 - Feb. 2020
Droduce e color image with digitized Drobudin Corpleii glass plats	

• Produce a color image with digitized Prokudin-Gorskii glass plate images.

Art Style Recognition Based o	n Convolutional Neural Networks	
Massachusetts Institute of Technology, Boston Python		July 2019 - Aug. 2019
• Build and train a neural	network to match the artists with the give	ven paintings.
Image Processing Based on M	atlab	
Zhejiang University, Hangzhou Matlab		Apr. 2018 - June 2018
• Design practical image	signal processing function blocks.	
ADDITIONAL ACTIVITIES		
International Genetically Eng	ineered Machine (iGEM) Competition	1
Zhejiang University, Hangzhou	Hynes Convention Center, Boston	Dec. 2017 - Oct. 2018
• Multidisciplinary teamw	vork including modeling, hardware build	ding and wet lab experiments
to complete our biosens	or system for this worldwide synthetic b	iology competition
SKILLS		
Programming Languages	Python, C/C++, Matlab, Pascal	
Platforms	Windows, Linux, OS X	
Tools	Anaconda, Keil, Altium Designer,	OrCAD PSpice
AWARDS		
Cold model in the iCEM 2019		

Gold medal in the iGEM 2018 competition

Scholarship for Outstanding Students in Chu Kochen Honors College (2018-2019)

The Third Prize in Zhejiang Physics Innovation Competition for college students (Theory. 2017)