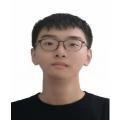
Cheng Jin

 $\begin{array}{ll} \textbf{UESTC, 2006 Xiyuan Ave., Chengdu, China} \, (\textbf{Addr.}) & \textbf{Cheng.Jin@std.uestc.edu.cn} \, (\textbf{Mail}) \\ \textbf{611731} \, (\textbf{Postcode}) & \textbf{peterjin.top} \, (\textbf{Homepage}) \\ \end{array}$



+8615583205630 (Tel.)

Education

- University of Electronic Science and Technology of China Optoelectronic Information B.Eng 2018.09 2022.06(Estimated)
 - Engineering Math(91), Mathematics Experiment(92), Signals and Systems(86), Application and Design of Digital Logic(85), Advanced Programming Language(90), Novel Optical imaging(88), Electrical Assembly Practice(92) etc.

Skills

- Languages: Python, MATLAB, LATEX
- Packages: NumPy, pandas, scikit-learn, PyTorch, TensorFlow

Internship

• Strategic Explorations Limited Artificial Intelligence R&D Engineer 2020.06 – 2020.08

 Self-developed IPNN(Iterative Pansharpening Neural Network) structure used in pansharpening, whose accuracy achieves 94.38%.

Awards

• Volunteer Activity of the 13 th ICPA Conference Outstanding Volunteer	2020.01	
$ullet$ the 19 th UESTC Mathematical Modelling Contest $\ \ Third\ Price$	2019.06	
• 2019 UESTC English Dubbing Competition Honorable Mention Winner	2019.06	
• Outstanding Student at Elite Class of Optoelectronic School(5.2%) Second Category 2019.11		
• 2019 UESTC Summer Social Practice Outstanding Individual	2019.12	
$ \bullet \ \ 2020 \ \mathbf{Mathematical} \ \mathbf{Contest} \ \mathbf{in} \ \mathbf{Modeling}(\mathbf{MCM}) \mathit{Successful} \ \mathit{Participant} \\$	2020.01	
$ \bullet \ \ 2020 \ \ Contemporary \ \ Undergraduate \ \ Mathematical \ \ Contest \ in \ \ Modeling (CUMCM) $		
First Price	2020.09	

Commissions of Trust

• UESTC Appl	ied Electronics Association Member	2018.09 - 2019.06
• UESTC Ingre	ess Club President	2019.09 - 2020.06
• Reviewer for	IEEE Transactions on Geoscience and Remote Sensing	Since 2020.07
• Reviewer for	IEEE Geoscience and Remote Sensing Letters	Since 2020.08
• Reviewer for	International Journal of Computer Vision	Since 2021.03

Certificates

• College English Test(CET) CET-4 (635), CET-6 (657)

2018.12 - 2019.06

• TOEFL 108 2019.10

• CRAC Amateur Raido Operation Licence A Category

2020.09

Research Projects

• UCB Innovation and Leadership Winter Program Skill Development

2019.01 - 2019.02

- Project Attribute: Study Abroad Exchange Program
- Project Introduction: The program is based on the Robertson Leadership Center and is designed to strengthen the application of leadership in practice. The program is closely focused on the theme of innovation and leadership, with a focus on fostering a sense of innovation, cross-cultural communication, teamwork and team leadership skills.
- Project Accomplishment: Completed all requirements of the program and received a certificate of completion.

• Volunteer Teaching Activities in Ganzir Village Social Practice

2019.07

- Project Attribute: Public Welfare
- Project Introduction: This project is the mission of the "Bees' Home" volunteer teaching team from the
 School of Optoelectronics Science and Engineering of the University of Electronic Science and Technology.
 The team went to Dashuitang community in Ganzir Village, Liangshan Yi Autonomous Prefecture, Xichang
 City, Sichuan Province (a poverty-stricken area) for a one-month teaching period. The subjects taught were
 Chinese, mathematics, English, science and art to a group of students ranging from third grade to the ninth
 grade.
- Project Accomplishment: Warm-welcomed by the local residents, the volunteer teaching team was interviewed on the local Liangshan TV station and successfully completed the corresponding teaching assignment.

• Research of Pansharpening Satellite Images Computer Vision

2019.10 - 2020.2

- Project Attribute: UESTC Scientific Research Training Program
- Development Environment: Python, TensorFlow
- Project Introduction: This project fuses the high-resolution panchromatic map captured by the WorldView-3, Gaofen-2 satellite sensor with the low-resolution multispectral map through a convolutional neural network to obtain high-resolution multispectral images.
- Project Accomplishment: Utilized TensorFlow Framework in Python to create a 5-layer Laplacian Pyramid Convolutional Neural Network(CNN), which includes several Modulation Transfer Function(MTF)-generated convolutional kernels. Both visual performance and quality indexes are the best among recent literature. (Up to Sept. of 2020)

• Brain-like Computation Simulation Material Science/Software Engineering 2019

2019.12 - 2020.12

- Project Attribute: UESTC Scientific Research Training Program
- Development Environment: Software: Python, PyTorch; Hardware and Material: Graphene,
 TMDCs(Transition Metal Dichalcogenide) and Experimental Instruments Provided by UESTC
 Optoelectronic Laboratory
- Project Introduction: In this project, a corresponding two-dimensional device was designed and fabricated
 to realize the artificial simulation of biological synapses, including the short-term plasticity, long-term
 plasticity, and double-pulse dissimulation of synapses, and a corresponding simulation program was written.
- Project Accomplishment: The simulation software designed by our team is able to simulate the conductive properties of two-dimensional materials under various parameters well within the error tolerance, which saves the cost of manufacturing two-dimensional material measurements, and simulates the long- and short-term plasticity and double-pulse dissimilarity of biological synapses well.