

JIANGUO HUANG

1088 Xueyuan Avenue, Nanshan District, Shenzhen City, China
(+86) 17778884396 ◊ huangjg@shanghaitech.edu.cn ◊ [Personal Website](#)

EDUCATION

ShanghaiTech University M.S., Computer Science and Technology	<i>2021.9 - Current</i> Overall GPA: 3.71/4.0 Major GPA: 3.88/4.0
North China Electric Power University B.S., Information and Computing Science	<i>2017.9 - 2021.6</i> Overall GPA: 3.93/4.0

RESEARCH INTERESTS

Trustworthy AI, Uncertainty Quantification (esp., Conformal Prediction), and Computer Vision.

EXPERIENCE

Research Intern , Southern University of Science and Technology.	<i>2023.7 - Current</i>
<ul style="list-style-type: none">My research field is the conformal prediction for image classification problems. We proposed a conformal score function based on label ranking, which can generate smaller prediction sets than that of other traditional methods.	
Co-founder & Algorithm Engineer , Changsha Hongcheng Electric Technology Co., LTD.	<i>2021.8 - Current</i>
<ul style="list-style-type: none">To identify the location and category of faults in the power transformers, I developed a set of algorithms based on Machine Learning and Signal Processing, whose performance is significantly superior to other products on the market.	
Open Source Projects	<i>2021.7 - Current</i>
<ul style="list-style-type: none">TorchCP: A Python toolbox for conformal prediction research on deep learning, using PyTorch.Magic-cv: A tutorial on Digital Image Processing along with instructional videos.	

PREPRINTS

(† Equal contribution)

Does Confidence Calibration Help Conformal Prediction? Huajun Xi†, **Jianguo Huang†**, Lei Feng, Hongxin Wei*. Under review in CVPR'2024.

Conformal Prediction for Deep Classifier via Label Ranking. **Jianguo Huang†**, Huajun Xi†, Linjun Zhang, Huaxiu Yao, Yue Qiu*, Hongxin Wei*. Under review in ICLR'2024.

Physics-informed invertible neural network for the Koopman operator learning. Yuhuang Meng†, **Jianguo Huang†**, Yue Qiu*. Minor revisions in Journal of Computational Physics (JCR Q1).

AWARDS AND HONORS

40/1758 in the 3rd Alibaba Cloud Panjiu Zhiwei Algorithm Competition	<i>2022</i>
Outstanding Departmental Student Awards	<i>2019-2020, 2020-2021</i>
1st prize in the undergraduate group of the 6th "Discovery Cup" National College Students Internet Software Design Competition	<i>2018-2019</i>