JIANG Jiahang

Academy of Interdisciplinary Studies

(Data Science and Analytics)

Hong Kong University of Science and Technology

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Education

09/2016---06/2020	**Nanjing University of Science and Technology**
	Major: Intelligent Science and Technology
	Average Score: 88.91% (Ranking: 2nd/74)
09/2020---06/2021	**Hong Kong University of Science and Technology**
	Major: Big Data Technology
	GGA: 3.78/4.30
09/2021---present	**Hong Kong University of Science and Technology**
	Major: Academy of Interdisciplinary Studies (Data Science and Analytics)
	Current GGA: 3.71/4.30

Thesis/Research Experience

1. Macula Fovea Detection Based on Retina OCT Images

(1) Implemented detection model based on novel features such as "ILM Gradient", "Number of Retina Vein" and "Number of High-reflection Bands".

(2) Thesis named *"Automated detection algorithm of macular fovea in SD-OCT images"* was accepted by CCML.

2. Extraction of Entities and Relations

(1) Built a seq2seq model based on a joint tagging scheme to do extraction of entities and relations.

(2) Put forward a new tagging scheme to do emotional-cause pairs extraction.

3. Adaptive Learning with Random Smoothing Kernel Hilbert Spaces

(1) Propose a unified framework based on random smoothing data augmentation that can effectively and adaptively learn a wide range of ground truth functions.

(2) Derive fast convergence rates for kernel gradient descent, either with early stopping or weight decay.

4. Representation Learning

(1) Adopt linear estimator to prove that augmentation in contrastive learning can help select important features.

(2) Adopt Momentum Contrastive (MoCo) learning to enhance the consistency during feature matching process in data distillation.

Teaching Assistant

DSAA5009 (Spring 2023) - Deep Learning in Data Science
UFUG1105 (Fall 2023) – Honors Calculus I

Awards and Honors

2023 ICSA Honorable Mention Poster Award, 2023.07
Outstanding Graduate of Nanjing University of Science and Technology, 2020.06
Third Prize in 5th "Internet+" Entrepreneurship and Innovation Competition, 2019.09
Third Prize in 10th "Lanqiao Cup" C/C++ Programme Design Match, 2019.03
Merit Student of Nanjing University of Science and Technology, 2017-2019

Merit Student of Nanjing University of Science and Technology, 2018-2019

First Prize Scholarship of Academic Year 2016-2017

First Prize Scholarship of Academic Year 2017-2018