RUN WANG

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EDUCATION

Fudan University, Shanghai *September 2018 - Present*
Bachelor of electrical engineering (Honours) and biomedical engineering
GPA: 3.83/4.00 (Overall) 4.00/4.00 (Second Year) **Ranking:** 1/204
Course Highlights: Mathematical Analysis(A), Pattern Recognition and Machine Learning(A), Probability, Mathematical Statistics and Stochastic Process(A), Data Structure and Algorithm Design(A), Signal and System(A), Information Theory(Pending), Principle of Automatic Control(Pending)

DUKE-NUS Medical School, Singapore *June 2019 - July 2019*
Visiting Student of Prehealth Experimental Program

Computational Neuroscience Summer School, Neuromatch *July 2020 - August 2020*

PUBLICATION

Run Wang, Ke Xu, Hui Feng and Wei Chen. Hybrid RNN-ANN Based Deep Physiological Network for Pain Recognition, *IEEE EMBC 2020*

RESEARCH EXPERIENCE

Wearable Pain Detection System for Nonverbal Patients
Supervisor: Prof. Hui Feng and Prof. Wei Chen, Fudan University *Feb. 2019 - Apr. 2020*

- Proposed this pain research project from a real clinical problem in the hospice care center
- Used hybrid RNN-ANN method to classify the pain levels and cooperated with the Biovid Heat database
- Achieved a state of art result of this problem in terms of accuracy and clinical convenience and published an EMBC 2020 paper

MIT AI-Cures Open Task: Covid-19 Drug Discovery with ML Tools
Supervisor: Prof. Xipeng Qiu *Apr. 2020 - Jul. 2020*

- Worked on the open task of screening exiting drug molecule to find the drug for COVID-19
- Proposed a GNN which leveraged the feature engineering results
- Achieve 88% auc-roc score which was the state of the art

Edge Selection Algorithm for Graph Hitting Time Optimization
Supervisor: Prof. Zhongzhi Zhang, Fudan University *Sep. 2020 - Present*

- Studied the problem of minimizing the hitting time of a graph by deleting edges

EXTRACURRICULAR

Hospice Care Centre Volunteer *Sep. 2018 - Sep. 2019*
Volunteer Leader of Hospicecare Service *Shanghai Jin'an Hospital*

SKILLS

Programming Languages C, C++, Python, Matlab
English Test TOEFL IBT 102