SAMANTHA (RUN) WANG

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EDUCATION

Fudan University, Shanghai *September 2018 - Present*
Bachelor of Biomedical Engineering (Honor Class)
GPA: 3.80/4.00 (Overall) 4.00/4.00 (Second Year) **Ranking:** 1/204
Course Highlights: Mathematical Analysis(A), Programming(A), Engineering Mathematics(A), Probability, Mathematical Statistics and Stochastic Process(A), Analog Circuit(A), Fundamentals of Digital Logic(A)

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

PUBLICATION

Run Wang, Ke Xu, Hui Feng and Wei Chen. Deep Physiological Recurrent Neural Network for Pain Recognition, *IEEE EMBC 2020*, Accepted

RESEARCH EXPERIENCE

Wearable and portable pain detection system on Raspberry Pi
Supervisor: Prof. Wei Chen, Prof. Hui Feng, Fudan University *April 2019 - Present*

- Use RNN model classify different pain level and submit the result paper to EMBC
- Contact to the Biovid heat pain database, preprocess their raw data and use these as test data
- Establish the hardware system of the Raspberry Pi and GSR sensor and complete the algorithm that calculates the GSR signal frequency

Sea Ice Concentration Estimation from SAR Image using WGAN-based Segmentation Method — A Case Study
Supervisor: Prof.Ding Tao, Fudan University *March 2019 - July 2019*

- Download the data and help my tutor to preprocess the image by calibration, land masking and incident angle calibration
- Attend the CECAR8 conference in Japan and help my tutors' doctoral student present our work

EXTRACURRICULAR

Hospice Care Centre Volunteer *September 2018 - September 2019*
Chief inspector of the Center of Volunteer Service *Shanghai Jin'an Hospital*

SKILLS

Programming Languages	C, C++, Python, Matlab, Raspberry Pi, LaTeX
Research Skill	Physiological signal data acquisition and processing, Paper reviewing, Mathematical Modeling, Pattern Recognition
English Test	TOEFL IBT 103, CET-6 625