Shili Wang

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EDUCATION

Carnegie Mellon University *Pittsburgh, PA*

- Master of Science in Computational Biology *May 2021*
- Core Courses: *Neural Computation, Advanced System Neuroscience. Computer vision, Machine Learning for Scientists*
- GPA: 3.48/4.0

Beihang University *Beijing, China*

- Bachelor of Engineering in Fluid Mechanics *July 2019*
- GPA: 3.7/4.0

PROFESSIONAL SKILLS

- **Computer Skills**: MATLAB, C, Python, SQL, Go
- **Language:** Native in Chinese, Fluent in English

WORK EXPERIENCE

Kuaishou Company *Beijing, China*

Data Analyst Intern *April 2019 – June 2019*

- Applied SQL to process massive users' behavior data for the pattern recognition.
- Implemented various machine learning models such as xgboost to predict users' precise identities with 95% accuracy.

RESEARCH EXPERIENCE

Biological Department, Carnegie Mellon University *Pittsburgh, U.S*

Research Assistant *Advisor: Professor Eric Yttri* *February 2020 – Februray,2021*

- Applied wavelet analysis to track the motion features in the face of a mouse in a video.
- Used Lyon's model to get the acoustic features for the audio of a mouse.
- Ultilized UMAP and Hdbscan to cluster the motion or acoustic features at different time points.

Functional MRI Center, University of California, San Diego *San Diego, U.S.*

Co-author & Programmer *Advisor: Professor Thomas. T Liu* *July 2018 – Oct 2018*

- Utilized a gated RNN (recurrent neural network)-based model, to identify individuals based on their resting-state fMRI data. Accuracy has reached 95%, far higher than the accuracy of 70% using brutal matching method.
- Applied various pattern tests to show that the RNN performance depends primarily on the data's spatial correlation.

Institute of System Structure, Beihang University *Beijing, China*

Co-author *Advisor: Professor Chao Tong* *May 2018- July 2018*

- Proposed a novel aircraft landing speed prediction model to accurately predict the landing speed of coming aircrafts.
- Analyzed and processed the QAR data by statistical method, elaborately designed the features by random forest algorithm. The experiment results suggested that the proposed model outperforms the state-of-art models.
- This paper has been published by Future Generation Computer Systems, November 2018.

PUBLICATIONS

- *Gangwu, Shuchang Zhou, Yujin Wang, Wenzhi Lv, **Shili Wang**, Ting Wang, A prediction model of outcomes of SARS-CoV-2pneumonia based on laboratory findings. Scientific Reports 10, 14042(2020).*

  https://www.nature.com/articles/s41598-020-71114-7

- *Chao Tong, Xiang Yin, **Shili Wang**, Zhigao Zheng, A novel deep learning method for aircraft landing speed prediction based on cloud-based sensor data,Future Generation Computer Systems, Volume 88,2018,Pages 552-558,ISSN 0167-739X,https://doi.org/10.1016/j.future.2018.06.023.*