JIARUI GAO

School of Computer Science
Fudan University
Shanghai, China

Phone: +86 15121192827
Email: jrgao0614@gmail.com
Homepage: http://jiaruigao.com

EDUCATION

School of Computer Science, Fudan University — Sept 2014 - present
Bachelor in Computer Science and Technology, Outstanding Student Honor Program
GPA: 3.54/4.0, Rank: 19/118, Major GPA: 3.66/4.0

PUBLICATIONS

Jiarui Gao, Yanwei Fu, Yu-Gang Jiang, and Xiangyang Xue. *Frame-Transformer Emotion Classification Network*, In ACM International Conference on Multimedia Retrieval(ICMR), 2017

- Propose FT-EC-net capable of solving emotion recognition, emotion attribution and emotion-oriented summarization jointly with only video-level supervision.
- Re-annotate the Ekman6 dataset as a good benchmark for emotion attribution task. Code published on *Github*.

Guoyun Tu, Yanwei Fu, **Jiarui Gao**, Boyang Li, Yu-Gang Jiang and Xiangyang Xue. *A Multi-task Neural Approach for Emotion Attribution, Classification and Summarization*, Under review of IEEE Transactions on Multimedia

- Propose a new neural approach Frame-Bi-stream Emotion Attribution-Classification Network, an end-to-end trainable neural architecture that tackles emotion attribution and classification simultaneously with significant performance improvements.
- Propose an efficient dynamic programming method for video summarization based on the output of attribution network.

EXPERIENCE

BigVid Lab, Fudan University — Nov 2015 - present
Research assistant supervised by Prof. Yanwei Fu & Prof. Yu-gang Jiang

Video Emotion Recognition and Detection

- Xiyuan project "Video Multi-emotion Recognition" funded by Fudan's Undergraduate Research Opportunities Program.
- Implement video key frame extraction based on frame encoding approach and visual attention model.

Zero Shot Learning for Image Recognition

- Propose a graph-based approach for retrofitting word vectors with visual information(i.e. fine-tuning semantic space with visual features), which will lead to a better visual-semantic embedding.

Corporate & Funding Technology, Morgan Stanley — Jul 2017 - Sept 2017
Summer analyst supervised by Xiaozhong Zhang

Flow Engine for Outside Business Interest System

- Implement an engine rendering decision process with a given set of rules.
- Front-end: Graph algorithm design and implementation in AngularJS2.0.
- Back-end: Database design and implementation in Java Spring Framework and DB2.

SELECTED AWARDS

Xiyuan Sholarship, Fudan University — May 2017
Second Prize of the Scholarship for Outstanding Students at Fudan University — Sept 2017

SIDE PROJECTS

Encrypted File System - Implement a file system which allows users to store and share data through an untrusted server.(*Github*)
Speech Recognition for Words - Course project for Digital Signal Processing and Speech Signal Analysis utilizing MFCC feature and LSTM in Keras.(*Github*)

SKILLS

Programming Languages: Python, Matlab, C/C++, Java, Typescript **Libraries:** Tensorflow, Keras
TOEFL: 107 (R29 L30 S23 W25) **GRE:** 320 + 3.5 (V152 Q168 AW3.5)