

Yiming Lin

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EDUCATION

- **Xi'an Jiaotong-Liverpool University** SuZhou, China
Third year student, Information and Computer Science (Overall GPA: 3.62/4.000, Major GPA: 3.98/4.000) Aug. 2017 – Now

EXPERIENCE

- **XJTLU-Hackthon 2018** SuZhou, China
First Prize *Jun 2018*
 - **Optical Music-Sheet Recognition:**
Created an Automatic Piano which, through image recognition, can play piano scores.
The product won the first prize and received a reward of RMB 5,000 in cash.
- **Sensys 2018 Conference Paper** ShenZhen, China
Co-author of "Ecrt: An edge computing system for real-time image-based object tracking" *Aug 2018 - Jun 2019*
 - **Attended Sensys 2018 Conference:**
 - **Edge Computing, Deep Learning and Reinforcement Learning:**
Designed an Edge Computing system for Real-time object Tracking (ECRT) for resource-constrained devices.
The key feature of the system is that it intelligently partitions compute-intensive tasks such as inferencing a convolutional neural network (CNN) into two parts, which are executed locally on an IoT device and/or on the edge server.
In the later version, instead of using heuristic algorithm we designed a Reinforcement learning algorithm to scheduling the partition points, the later version is in submission.
- **Summer Undergraduate Research Fellowships 2018** SuZhou, China
Author of "Object Tracking via Deep Neural Networks Using Dynamic Template Module" *Summer 2019*
 - **Video Object Tracking:**
Designed a LSTM-based Dynamic Template Module to improve robustness of current Siamese-neuron-network based tracking model.
 - **Video Prediction Framework:**
Also developed a Video Prediction Framework based on pytorch.
- **Computer association in XJTLU** SuZhou, China
Vice President of the association *Jan 2018 - Now*
- **Research Assistant - Machine Learning in XJTLU** SuZhou, China
Research Assistant of PremiLab@XJTLU *July 2018 - Now*

PROGRAMMING SKILLS

- **Languages:**
Python, Java, C, html, CSS, Javascript
- **Technologies:**
machine Learning, Reinforcement Learning, Computer Vision, Pytorch, Tensorflow, Django

PROJECTS

- **XJTLU-Hackthon 2018:**
News in <https://www.xjtlu.edu.cn/en/news/2018/07/xjtlu-held-hacker-marathon-competition>
- **Object Tracking via Deep Neural Networks Using Dynamic Template Module:**
Poster can be found in https://github.com/JaMesLiMers/Research_Posters
- **Video Prediction Framework:**
Code can be found in <https://github.com/JaMesLiMers/Frame.Video.Prediction.Pytorch>
- **Ecrt: An edge computing system for real-time image-based object tracking:**
Can be found in https://www.researchgate.net/publication/328546129_ECRT_An_Edge_Computing_System_for_Real-Time_Image-based-Object_Tracking