

Lanxin Lei

University of Electronic Science and Technology of China
Embedded specialty. Graduation time: 30/06/2019

Email : leilanzin@163.com
Mobile : (+86) 15332370878
GPA : 3.49/4

PROFILE SUMMARY

- **Research:** A published paper in ICLR 2019. Four research experiences.
- **Engineering:** Two engineering practices. Three competitions.
- **Expertise:** Reinforcement Learning. Recommendation System
- **Programming Skills:** Python, Bash, Java, C

RESEARCH EXPERIENCES

- **Mmlab** Hong kong, CN
Research Assistant *Sep. 2018 - Present*
 - **Exploration more for potentially good actions**
 - * Implemented the method that made use of shorter estimations to encourage actions with potential of being good.
 - * Verified the effectiveness in 8 Mujoco environments, 3 Atari environments and 3 sparse environments.
 - * Preparing for submitting the project to NeurIPS 2019.
 - **Exploit in exploration**
 - * Implemented the method that used the signs of advantage value to train a discriminator for improving sampling efficiency of policy, trained in the Mujoco environments.
 - * Analyzed reasons for little effect of the method.
 - **Sub-Environments**
 - * Created two sub-environments for Arm3D environment to make reward designing easier.
 - * Implemented the method that parallelly trained both the sub-environments and the initial environment.
 - * Validated the effectiveness of the method in a toy simulator, a grid world with one single line.
- **Sensetime** Shenzhen, CN
Research Intern *Jan. 2018 - Sep. 2018*
 - **Self-driving Car**
 - * Implemented Reinforcement Learning algorithms such as DDPG, A2C and ACER for Multi-Cars control.
 - * Successfully trained the algorithms in Multi-Cars simulator.
 - **Lecture for AI education**
 - * Made three lectures in Artificial Intelligence to middle school teachers.
- **SAP** Chengdu, CN
Research Intern *Jul. 2017 - Jan. 2018*
 - Calculated the similarity of commodities by Word2Vec and the Word Movers Distance
 - Accomplished Recommendation System by using Matrix Decomposition.
 - Replaced A/B Test with Bandit Algorithm to improve the adjustment of recommendation strategy.
- **Institute of Information Engineering, Chinese Academy of Sciences** Beijing, CN
Research Assistant *Jan. 2017 - Feb. 2017*
 - Implemented the Siamese-FC model to track of the target car in the video.
 - Implemented Bayesian Face Algorithm to judge whether two faces belong to the same person.

PUBLICATION

- ***An on-policy temporally consistent exploration method for deep reinforcement learning ICLR 2019***
 - Introduced the dropout of hidden neuron unit to reinforcement learning policies.
 - Trained experiments, visualized performance comparison for paper writing.

ENGINEERING EXPERIENCES

- **Joint laboratory of schools and enterprises**

Research Assistant

Chengdu, CN

Oct. 2015 - Jun. 2017

- **ERP:** Implemented query function for record management system by Microservices Architecture in Java.
- **Commercial projects:** Analyzed the existing fresh market and designed product based on the achievable technology.

COMPETITION

- **Based on pavement security camera to predict abnormal human flow**

27/03/2017

- **Project awards** 2017 SAP Innovation Competition champion
 - * Designed a Computer Vision system to monitor the crowd flow based on the existing security monitoring.

- **Future kitchen-personal assistant**

22/04/2016

- **Project awards** BOE Cup Honor Award
 - * Designed a Wisdom Kitchen Product for smart city.
 - * Achieved wisdom functions, such as automated cooking, recommended recipes, kitchen safety supervision, and analysis of dietary balance.

- **Ping-Let you no longer worry about college dormitory**

8/19/2015

- **Project awards** Changhong Cup third prize
 - * Designed a sociology-based assessment algorithm to reduce the occurrence of dormitory conflicts by optimizing the dormitory allocation mechanism.
 - * Invited a psychology teacher to assist the project.

VOLUNTEER ACTIVITY

- UESTC 60th anniversary volunteer

27/09/2016 - 29/09/2017

- China College Student' Entrepreneurship Competition volunteer

15/11/2016 - 20/11/2016

- Maker Faire Chengdu volunteer

13/12/2016 - 14/12/2016