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**Shangxi Wu**

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**EDUCATION**

**Beijing Jiaotong University, Beijing Sep. 2016 – Sep. 2020(Expected)**

Major: Computer Science, GPA: 3.63/4.0 (Major: 3.78/4.0)

Related Courses: Discrete Mathematics, Machine Learning, Data Structures and Algorithms, Computer Network Principles, Database System Principles, Computer Composition Principles, Assembly and Interface Technology

**PUBLICATION**

*“****Attention, Please! Adversarial Defense via Attention Rectification and Preservation****” Shangxi Wu, Jitao Sang, Kaiyuan Xu, Jiaming Zhang, Yanfeng Sun, Liping Jing, Jian Yu*

* *View at:* [*https://arxiv.org/abs/1811.09831*](https://arxiv.org/abs/1811.09831) *(The first author contributed CVPR2019)*

*“****Butterfly Detection Based on Integrate YOLO****” Shangxi Wu\*, Bohan Liang\*, Kaiyuan Xu, Jingyu Hao*

* *(To be published as the first author)*

**RESEARCH DIRECTION**

Computer Vision (Object detection & Images Classification)

Adversarial Example & Explanatory of deep learning model

Reinforce Learning & Knowledge graph

**RESEARCH EXPERIENCE**

**Institute of Network Science and Intelligent System, Beijing Key Laboratory** Jul. 2017 – Jun. 2018

* Studied Graph Embedding with Professor Lin Youfang.

**Butterfly Detection Competition, China Conference on Data Mining** Sep. 2017 – Jun. 2018

* Served as the team leader, designed the model and led the team to mine the data
* Designed the integrated YOLO v3 model to integrate YOLO v3 for different scenarios, greatly improved the recognition accuracy while ensuring high recognition speed.
* Accurately identified more than 100 existing Chinese butterflies, get the 13th in classification task and the 20th in image location task (358 teams in total)

**Intern, Beijing Hercules IT Services Development Co., Ltd, AI Algorithm Engineer** Sep. 2017 – Sep. 2018

* Responsible for landing the existing deep learning algorithm in the target detection task of road sign detection

**Beijing Key Lab of Traffic Data Analysis and Mining** Nov. 2017 – Current

* Cooperating with Professor Jitao Sang, Professor Liping Jing, Professor Jian Yu and Professor Yanfeng Sun (Beijing University of Science and Technology) to study the Adversarial Examples.
* Managing a GPU server in the lab and familiar with the Linux (Arch & Ubuntu) OS
* Enjoying postgraduate benefits in the lab

**SKILLS**

Programming languages: Python3(Proficient), C(Proficient), C++( Proficient), Latex, java

Deep learning framework: Tensorflow(Proficient), PyTorch, Mxnet）

**SCHOLARSHIPS & AWARDS**

The first prize, the 12th University Student Programming Contest of Beijing Jiaotong University 2017 – 2018

Third-class Scholarship, Beijing Jiaotong University 2016 – 2017

The third prize, the non-mathematics group of the 2017 Beijing Jiaotong University Mathematics Competition 2016 – 2017

The third prize, the non-mathematics category of the 28th Beijing University Student Mathematics Competition 2016 –2017

The third prize of non-mathematics, the 9th National College Student Mathematics Competition2016 –2017

**Activities**

Ben Galbraith (Google Product Director) offline translator, Google 2016

* + excellent volunteer, Beijing GDD

Outstanding Volunteers, Lenovo Group 2017 Annual Meeting

Excellent Volunteer Award, the 4th China International Big Data Conference

Invited, the Google Alpha-Go explanation

Invited to participate in Baidu's 6th Technology Open Day

Participant, the 2018 China Big Data Technology Conference (BDTC) hosted by CCF, the research results were presented by Professor Jitao Sang in the Deep Learning Forum.