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**Shangxi Wu**

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**Address: Jiayuan B 1419, Beijing Jiaotong University, Beixiaguan Street, Beijing, China**

**Education**

**Beijing Jiaotong University, Beijing September, 2016 - Current**

Major: Computer Science

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

**GPA: 3.63/4.0 (Major: 3.78/4.0)**

**Publication**

* “**Attention, Please! Adversarial Defense via Attention Rectification and Preservation**” Shangxi Wu, Jitao Sang, Kaiyuan Xu, Jiaming Zhang, Yanfeng Sun, Liping Jing, Jian Yu <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 (The first author is to be published)

**Research Interest**

Computer Vision (Object detection & Images Classification)

Adversarial Example & Explanatory of deep learning model

Reinforce Learning & Knowledge graph

**Skills**

Proficient programming language: **Python3, C, C++, Latex**（Familiar with **java** etc.）

Proficient deep learning framework: **Tensorflow** （Familiar with **PyTorch & Mxnet**）

**Research Experience**

**Institute of Network Science And Intelligent System, Beijing Key Laboratory** July, 2017 – June, 2018

* Study Graph Embedding with Professor Lin Youfang.

**Butterfly Detection Competition hold by China Conference on Data Mining** September, 2017 – June, 2018

* Serve as the team leader, design the model and lead the team to mining the data
* Designed the integrated YOLO v3 model to integrate YOLO v3 for different scenarios, greatly improving the recognition accuracy while ensuring high recognition speed.
* Accurately identify more than 100 existing Chinese butterflies, get the 13th in classification task and 20th in image location task (358 teams totally)
* The first author is to be published **“Butterfly Detection Based On Integrate YOLO”**

**Internship at Beijing Hercules IT Services Development Co., Ltd, AI Algorithm Engineer** September, 2017 – September, 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** November, 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.
* First author published “**Attention, Please! Adversarial Defense via Attention Rectification and Preservation**”
* Manage a GPU server in the lab and familiar with the Linux (Arch & Ubuntu) OS
* Enjoy postgraduate benefits in the lab

**Scholarships & Awards**

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

**Beijing Jiaotong University Third-class Scholarship** 2016 – 2017

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

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

**The 9th National College Student Mathematics Competition, the third prize of non-mathematics** 2016 –2017

**Activities**

# C:\Users\KirinNg\AppData\Local\Microsoft\Windows\INetCache\Content.Word\IMG_20161208_192944.jpgBen Galbraith (Google Product Director) offline translator, Google 2016 Beijing GDD

* excellent volunteer

**Lenovo Group 2017 Annual Meeting Outstanding Volunteers**

**Excellent Volunteer Award of the 4th China International Big Data Conference**

**Invited to participate in Google Alpha-Go explanation**

* Photo with Mr. Scott Beaumont (Director of Google Greater China)

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

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