WANG MINGYE（王明业）

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Education

Nanyang Technological University, Singapore

M.Sc. (Information Systems)   Aug. 2021 - June 2022

Sun Yat-Sen University, Guangzhou, China

B.Eng. (Software Engineering)   Sept.2017 - June 2021

Publication

Chen, R., Dai, R. and **Wang, M.** (2020) *Transcription Factor Bound Regions Prediction: Word2Vec Technique with Convolutional Neural Network*. Journal of Intelligent Learning Systems and Applications, 12, 1-13. doi: 10.4236/jilsa.2020.121001.

- Our project is to predict Transcription Factor Bound Regions, given the motif instances from the dataset as an input in our model.
- **My contribution:** Raise the issue and propose feasible solution. Search for datasets. Preprocess data. Generate word vectors. Build deep learning model. Visualize results.
- I am the **co-first author** as well as the **corresponding author** of this paper (please see **the footnote of the paper's first page**).
- Paper Link: https://www.scirp.org/pdf/jilsa_2019120417191886.pdf

Internship

Tik Tok Pte. Ltd, Singapore

SRE(Backend) of IaaS (Internship)   Sept. 2021 – May 2022

- Be responsible for physical machine online, virtual machine creating and hostoverlay machine delivery. Also developed the API of rebuilding virtual machine with IP and hypervisor kept and automated the process.
- I had got the return offer but later I rejected it, because I finally decided to return to China after graduation.

Tencent Holdings Ltd., Guangzhou, China

Operation and Maintenance Engineer (Internship)   May. 2021 - July 2021

- Serve in Technical Architecture Department, Weixin Group (WXG). Maintain the module WXG Package Manager. Migrate data in physical machine database to cloud database. Write scripts to check the consistency of module's machine type registered in configuration management database and resource dispatcher. Write scripts to solve the problem that many servers' storage is almost out of use due to the large CUDA file on the disk.
- This is a FTE offer for fresh graduate, but I decided to pursue the master degree so I gave up being a FTE.

Huawei Technologies Co., Ltd, Shenzhen, China

Digital IT Application Engineer (Internship)   Mar. 2020 - July 2020

- Data Provenance and Efficiency Engineering. Develop applications (in Python) to collect previously executed SQL query statements from the data dictionary of the database (Oracle or Hana) and extract the association relationships of columns between tables from the abstract syntax tree of these statements.

National Engineering Research Center of Digital Life, Sun Yat-sen University, Guangzhou, China

Algorithm Intern   Sept. 2019 - Jan. 2020

- Develop applications (in Python) based on dlib and OpenCV to assess the quality (face resolution, blur) of human face images and estimate the head pose.

Guangdong Century Xiao Education Technology Co., Ltd, Guangzhou, China

Operation & Development Intern   Mar. 2019 - June. 2019

- Develop an application (in Python) based on OpenCV to process the pictures of physics problems, which can recognize the objects in the picture and judge their contacts.

Work Experience

ByteDance Ltd. (Tiktok's Parent Company), Shenzhen, China

SRE(Backend) of Cloud Network (To-B, Volcengine)   July. 2022 – Now

- My team leader in Tiktok Singapore felt very pity that I decided not to stay in Singapore, and he strongly hopes that I can continue to support SG's projects. He asked the president of our department, and raised the plan that after I join the company in China, I continue to support Singapore projects for the first three months. Finally, the plan was implemented and I will support SG's projects until Oct. 2022. My main work in these 3 months is to build the operation automation system, including backend APIs and work flows, of SG IaaS.
- My work in CN To-B team is Load Balancer product's deployment, maintenance & upgrades, and the operation automation system, including backend APIs and work flows, of To-B Cloud Network.

Visiting

2019 CIS (Cathay Institute of Science) Academic Summer Session

- Course: Machine Learning in Genomics
- Professor: Manolis Kellis, Ph.D.
                Professor, Computer Science, MIT.
                 Head, MIT Computational Biology Group.
- My Grade: A+
- Transcript, Certification of Completion, Course Introduction and Student Evaluation by Professor are in this online repository.

2019 Sun Yat-sen University 'Yixian Overseas Study Program' -- Intelligent Application of Industry 4.0 in German

- Visit institutions including University of Hamburg, Technical University of Munich, Humboldt University of Berlin, etc. Participate in academic lectures, talk with professors and visit laboratories.
- Visit typical enterprises of Industry 4.0, including BMW and Karcher production lines.

Awards

For award certifications and awards I got in high school, please visit this repository.

- 2019-2020 The 3rd Class Scholarship of Sun Yat-sen University
- 2019 The Mathematical Contest in Modeling -- Successful Participant
- 10/2018 – 04/2019 The 14th Sun Yat-sen University Software Innovation Competition – the 3rd Prize
- 2018 Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM-2018) Guangdong Province – The 3rd Prize
- 2017 Duxing Studio, School of mathematics, Sun Yat-sen University Mathematical Contest in Modeling -- Winner Prize

Projects

Due to space limitations, here lists some project titles. For the code and the introduction (in README.md of each code repository), please visit my github https://github.com/MIllionBenjamin/

- Supply Chain Financial Platform Based on Blockchain (Solidity, Python and Objective-C)
- Professor-course Rating Application (Java, React.js)
- Approaching Object Alertor (Swift)
- *Research on the Opioid Abuse Crisis in the United States —Based on Visual Data Processing Generalized Linear Model* (The Mathematical Contest in Modeling, 2019) (Python)
- *Research on Dynamic Scheduling Strategy for Intelligent Rail Guide Vehicle (RGV) based on Greedy Algorithm* (Contemporary Undergraduate Mathematical Contest in Modeling, 2018) (Python)

Skills

- Programming/Scripting: Python (Proficient), Go, C/C++, Java, , SQL, Shell, Javascript
- Framework/Tools: Git, Keras, Flask, Gin, MySQL, Oracle, Hana, Markdown
- Interests: Fitness, Basketball, Swimming, Skating, Piano

Leadership Activities

Sun Yat-Sen University, School of Data and Computer Science Student Union

Public Relations Department – Vice Minister   2018 – 2019

- Organize student activities such as singer competition (around 200 participants at the show) and basketball games (40 teams in total).
- Contact companies to find sponsors for student activities. At least ¥15,000 for each activity.