SHUAI WANG

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EDUCATION BACKGROUND

Ph.D. in Software Engineering, School of Software & Microelectronics, Peking University

06/2019-07/2021

M.S. in Data Science, Depart. of Data Science, Peking University

09/2016-06/2019

B.S. in *Software Engineering*, **Wuhan University**

09/2012-06/2016

Cumulative GPA: 3.55/4.0, Ranking: 1/53

PUBLICATION

- 1. Shuai Wang (2020). SeqMed: Recommending Medication Combination with Sequence Generative Adversarial Nets. 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), IEEE
- 2. Shuai Wang and Junfei Liu (2020). TAGNet: Temporal Aware Graph Convolution Network for Clinical Information Extraction. 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), IEEE
- 3. Shuai Wang and Junfei Liu (2020). ClinicNet: Clinical Practice Oriented Medical Representation Learning for Electronic Medical Records. 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), IEEE
- 4. Shuai Wang, et al. (2019). Deep Learning Based Code Completion Models for Programming Codes. Proceedings of the 2019 3rd International Symposium on Computer Science and Intelligent Control. Amsterdam, Netherlands, Association for Computing Machinery: Article 16.
- 5. Xiaoliang Meng, Junlong Li, Shuai Wang, Xiao Yang, An MLR Modeling Approach for High-resolution Remote Sensing Image, Remote Sensing Information, No.5, 2015
- 6. Rong Chen, Shuai Wang, Study on Feature Extraction Algorithm in Spectral Data Mining, Communication World, No.8, 2015
- 7. Shuai Wang, Junfei Liu and Hongzhi Liu (2021). RLCare: A Multi-task Based Reinforcement Learning Framework for Health Status Representation Learning. Paper under review.

PATENT

- 1. ZL 2015 2 0197924.5, Shuai Wang, A Sensor-based Indoor Temperature and Humidity Monitoring System (Granted in
- 2. ZL 2015 2 0197922.6, **Shuai Wang**, Rong Chen, A PM 2.5 Monitoring System (Granted in 2015)

RESEARCH EXPERIENCES

1. AI Research Engineer in Huawei Company

08/2021-present

- Job Responsibilities: pre-research and development of AI algorithm in real-time video calls, design and insight of AI-related product solutions.
- Main work:

Work Experience

- 1) 5G multimedia call product of Huawei: Led a) The project of video content detection technology based on compression domain, b) Web-based AI video enhancement technology project. Two projects successfully completed the reviewand was awarded as the company's 5-star technology project.
- 2) 5G new-calling product of Huawei: Led a series of AI algorithm performance optimization work.
- 3) Cutting-edge technology insight: The insight direction covers LLM cutting-edge technology, video/image AIGC, field expression, NPU/GPU acceleration principle, etc., and outputs 7 insight slides and 2 company-level technical reports.
- 4) Pre-research and practice in LLM: Read the GPT/LLAMA series papers, Diffusion Model series papers; I got familiar with hugging face, LMFlow, DeepSpeed and other tools, deployed the LLAMA 7B/13B/33B/65B model, did resource statistics and effect comparison experiments, and tried fine-tuning.
- Self-assessment: Greatly improved my software development ability and made me clear that I want to continue my research.

2. The study of health status representation learning methods and applications.

Research Project - Advisor: Dr. Junfei Liu, School of EECS, Peking University

09/2019-present

- Proposed a series of health status representation learning algorithms for clinical prediction tasks, including clinical output prediction and medication combination recommendation.
- Create a benchmark dataset for the evaluation of clinical multi-tasks learning methods
- Wrote and published a series of related research papers about medical informatics.
- Developed an auxiliary diagnosis system software.

3. Code Completion with NLP algorithms

Research Project -Advisor: Dr. Zhiyi Ma, School of EECS, Pekin g University

09/2018-7/2019

4. Few-Shot Learning for images Classification

<u>Master Reseach Project</u> -Advisor: Dr. Weiming Hu, Institute of automation, Chinese academy of sciences

03/2018-12/2018

- Raised a novel method to combine multitask learning with graph convolutional network to rebuild the relationship among subjects divided from one image sample.
- Create a LOGO image dataset for related studies.

5. Algorithm Optimization for MEET Generlized Framework

Master Research Project -Advisor: Dr. Dr Zhonghai Wu, Peking University

09/2016-06/2017

• Optimized algorithm based on Recommender Systems to solve a cold-start problem.

6. INAV Indoor Interactive Navigation App

<u>National Competition</u> -Advisor: Dr. Xiaoliang Meng, Wuhan University

03/2015-08/2015

• Led the team to successfully develop an IOS mobile phone client application. Responsible for task allocation and overall follow-up. Win the First Prize in a national competition and received an angel funding promise.

PROFESSIONAL SKILLS

- Proficiency in programming language such as C++, Python, R.
- Proficiency in deep learning framework such as Pytorch and Huggingface.
- Proficiency in IOS Swift Mobile Programming & Html Web Programming.
- · Proficiency in Latex and academic writing.

HONORS & AWARDS

•	Director Award of Huawei Beijing Institute/Good performance during Huawei	2021-2023
•	Special scholarship/Outstanding individual/Shenzhen Stock scholarship in Peking University	2016-2021
•	"Liu Daoyu" First-class Creativity Scholarship of Wuhan University	10/2015
•	National First Prize in the "China Software Cup" Software Design Competition for College Students	08/2015
•	Plenty of personal honors in Wuhan University(several scholarship and outstanding individual)	2012-2016

REPRESENTITIVE EXTRACURRICULAR ACTIVITIES

REPRESENTITIVE EXTRACURRICULAR ACTIVITIES			
• Participated in and presented papers in BIBM 2021, held in Seoul, Korea	12/2020		
• Participated in and presented my paper in FAIML 2019, held in Rome, Italy	07/2019		
• Participated in GMIC 2017, held in Qingdao, China, as an assistant to Professor Tom I	Mitchell 11/2017		
• Leader of the Learning and Studying Department of Wuhan University Association	06/2014-06/2015		
• Qingdao Daily Newspaper Enterprise, Intern Journalist	01/2015-02/2015		
• Co-author of the book entitled Postures of After 90s College Students	09/2013		

PREVIOUS ACQUIRED RESEARCH POSITION OFFERS

- 1. The offer of Postdoctoral position in Stanford University, School of Medicine in September, 2021. Due to COVID-19 in China, I am unable to catch up with the time limit of this project.
- 2. The offer of assistant research fellow in OXFORD Suzhou Center for Advanced Research in June, 2021. Because that it is different from my future research plan, I refuse this offer.