Yuxiang Wang

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EDUCATION

Johns Hopkins University, Baltimore, US | Sept 2020 – Jun 2022

- Whiting Engineering School **Degree:** Master of Engineering
- **Major:** Data Science

Southwest University (SWU), Chongqing, China | June 2020

- College of Computer & Information Science **Degree:** Bachelor of Engineering
- **Major:** Computer Science and Technology **GPA:** 3.91/5.0

PUBLISHED PAPERS

- Yuxiang Wang, Yongheng Zhang, Xuebo Li, Xinyao Yu, **COVID-19 Fake News Detection Using Bidirectional Encoder Representations from Transformers Based Models**, submitted on ICONIP 2021;
- Weiwei Wang; Jinghui Cai; Jiali Xu; Yuxiang Wang; Yulin Zou, **Prediction of the COVID-19 Infectivity and the Sustainable Impact on Public Health under Deep Learning Algorithm,** submitted on Soft Computing(SOCO);
- Yuxiang Wang, **Academic Supervision and Risk Assessment Based on Moodle LMS Data**, published on ICRIS International Conference released on EI, 2019;
- Yuxiang Wang, **Prediction of PM2.5 Concentration in Chengdu Based on Improved BP Neural Network**, published on icmmct International Conference, 2019;
- Yuxiang Wang, **Handwriting Numeral Recognition Based on R Language**, published on **PC Fan**, 2018, ISSN 1672-528X;
- Yuxiang Wang, **Development of Machine Dictionary for Natural language Processing**, published on **China Computer & Communication**, 2019 ISSN 1003-9767.

PUBLISHED PATENT

- Yuxiang Wang, **Improved Computer Monitor**, Appearance Invention Patent | Apr 2019 ;
- Yuxiang Wang, Zhengtong Tan, Zipeng Li, **Jianzhisheng College Student Part-time Job System V1.0**, software copyright | Feb 2019;
- Yuxiang Wang, **Student self-management system V1.0**, software copyright | Nov 2017 .

PROJECTS EXPERIENCES

Named Entity Recognition on IEEE Xplore scholarly documents | June 2021-August 2021

- Specialized in sub-field of CS field papers and designed our own annotation scheme. Pre-trained BERT-based model using IEEE corpus and explored other deep learning models, for example, XLNET and GPT-3 to further improve the performance of existing models.

Covid-19 Fake News Detection using BERT | May 2021

- Fine tuned the pre-trained BERT model as our base model. Added BiLSTM and CNN layers on the top of finetuned BERT model with frozen parameters and not frozen parameters methods respectively.

Detector of Offensive Language and Hate Speech for Tweet | Nov 2020

- Preprocessed tweet text using skip-gram based word2vec method, LIWC, and LDA feature extraction combined with SVM, logistics, and neural network models to achieve text multi-classification tasks.

Studied on Heat Transfer Model of Multilayer Insulation Clothing | Sep 2019

Won Provincial 2nd Prize in China Undergraduate Mathematical Contest in Modeling

- Model mainly determined size of each threshold by establishing partial differential equation models for existing data.
- Used models for a series of predictions and analyses.
- Undertook determination of threshold of partial differential equations model and preparation of some documents.

LMS Prototype of Student Performance Predication Model | Sep 2018-June 2019

- Applied ability of processing and analyzing big data to analyze students' scores, class times and failure rates, and data mainly came from a platform data that already running in certain universities in Chongqing

Influence Model of Bicycle Sharing on the City | Nov 2018

Won Honor Prize in Asia and Pacific Mathematical Contest in Modeling

- Evaluated the development status of shared bicycles in New York City from multiple dimensions such as transportation and economy.
- Used the model to predict trends in future of shared bikes. Predict the status if there is no shared bicycle.
- Took charge of analyzing the impact of shared bicycles on economic development and establishing corresponding models.

Jianzhisheng College Student Part-time Job System | June 2018

Won 2nd Prize (10/22) in Chongqing Database Programming Competition

- Undertook the development work of the system front and back interaction.
- Made development of some front-end interfaces.

Restoration of Motion Blur Pictures | May 2018

Won 1st Prize in Mathematical Modeling of SWU

- Explored the restoration of motion blurred images. Detected the fuzzy region and extracted them.
- Restored the images by filtering related methods.
- Responsible for creation and solution of point extension functions and writing related documents.

Intelligent Lighting——Automatic Coloring and Restoration System for Old Photos | May 2018

Won 1st Prize of Chongqing Province in China National College Student "Innovation, Originality and Entrepreneurship" Challenge

- Made the implementation of the system, which was mainly based on the training of a large number of sample pictures by convolutional neural networks.
- Enabled automatic coloring or restoration of old photos, as well as black and white comics. This system had a certain commercial value.
- Undertook conducting market demand research of the platform and completing the front-end interface implementation.

University-sponsored Scholarly Exchange to Auckland University | July 2018

- Studied some computer-related courses in the Department of Computer and Statistics of the University of Auckland, including R language data analysis, data mining, etc.
- Participated in the project team about handwritten digit recognition. We used three methods, which were linear fitting, logistic regression and kernel regression by R language platform to extract key pixel points to achieve handwritten digit recognition, and had high prediction accuracy.
- Showed our research results well and won the honor of the excellent team.

Search Extension Project | Sep 2017-Jan 2018

- Collected the course information of Netease Online Open Courses through python crawler. Used natural language processing related methods: word segmentation, doc2vec to classify and sort the collected data.
- Encapsulated the results into API, through which users can call this whole project and enter keywords to get the most suitable course information.

INTERNSHIP

Information Analyst | Oracle Chengdu Branch | July 2019

- Studied the processing methods (ADW through sql developer) and data visualization of big data (Oracle DV)
- Participated in the data analysis of the road traffic accident details in a certain area in 2018 and the registration data analysis of a certain hospital in Chengdu.

Computer Technician | Chengdu Calabar Information Technology Corp., Ltd. | July 2018

- Studied related technologies of natural language processing in the development department.

CAMPUS INVOLVEMENT

- **Director** | Students' Association Union of SWU |2017-2018
- **Core Member** | Students Union of SWU |2016-2017
- **Core Member** | Students' Association Union of SWU |2016-2017

SKILLS

- **Programming Languages:** Java(include Java SE/EE), Matlab, C(3 years+), R(2 years+), C++, Python, C#, PHP, HTML/CSS
- **Programming Tools:** MyEclipse, MYSQL/SQL Server/SQL developer, Rstudio, Anaconda, OracleVM VirtualBox(linux)
- **Others:** Flute (sixth grade), Paintings, Basketball, Guitar