



WU Junchao

PERSONAL RESUME

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Research Interest

- Knowledge Graphs, Natural Language Processing, and Information Retrieval

Education Background

- Sept. 2018-present **Beijing Normal University, Zhuhai** **Information Management and Information System**
- Major courses:** Mathematical Modeling and Data Mining(98); Data Analysis and Application(96); Java Enterprise Application Development(97); Python Programming and Machine Learning(93); Statistics(93)
 - GPA:** 87/100 (Top 10%)
 - Professional Scholarship** of Beijing Normal University, Zhuhai for 2018-2021 academic years
 - Academic Scholarship** of Beijing Normal University, Zhuhai for 2020-2021 academic year
 - Outstanding student cadre Honor** of Beijing Normal University, Zhuhai for 2018-2020 academic years

Skill

- English Level: IELTS (6.5), CET-6 (507)
- Languages: C, Python, Java, JavaScript, SQL, SPARQL, Bash
- Frameworks: SpringBoot, React.js, Scikit-learn, TensorFlow, Keras, Flask
- Other Tools: Neo4j, MySQL, Oracle DB, Jena, Git, WebLogic, Apache Ant
- Soft Skills: Leadership, Event Management, Writing, Public Speaking, Time Management

Research Paper

- Wu J.C.**, Jiang Y., Chen X., et al. “The Canton Canon” Digital Library Based on Knowledge Graph -- Taking the Revolutionary Archives of Canton in the Republic of China as an Example[C]. *Proceedings of the 10th International Conference on Educational and Information Technology (ICEIT)*, 2021, 171-179. (Best Oral Presentation Award)
- Yang J., Chen X., **Wu J.C.**, et al. A New Word Discovery Model for Bullet-Screen Comment based on Fusion of Multiple Features[J]. *Application Research of Computer*, 2022. (Chinese) (Accepted)
- Chen X., Zhang Y.X., **Wu J.C.**, et al. Construction and Analysis of Diachronic Bullet-Screen Corpus --Taking Youth Subculture Bullet-Screen Comment as an Example[J]. *Information Research*, 2022. (Chinese) (Accepted)
- Guo L.Y., **Wu J.C.**, Chen X., et al. Research and Application of Digitalization of Long March Red Cultural Resources Based on Knowledge Graphs[J]. *Electronic Technology & Software Engineering*, 2022(04):196-201. (Chinese)
- Jiang Y., **Wu J.C.**, Chen X., et al. Research on the Knowledge Graph of Spatiotemporal Evolution for the Historical Documents of Modern Chinese Revolution[J]. *Digital Library Forum*, 2022. (Chinese) (Under Review)
- Chen X., Zhang Y.X., **Wu J.C.**, et al. The Presentation and Evolution of Bullet-Screen Comment Topics Based on BTM in the Context of COVID-19[C]. *Proceedings of the 5th International Conference on Big Data and Artificial Intelligence (BDAI)*, 2022. (Under Review)

Research Project

- May. 2019-Mar. 2021 **Construction of a Digital Library for the History of Modern China’s Revolution Based on Knowledge Graph**
Beijing Normal University, Zhuhai **Role: Project Director**
Responsibility:
- Team leading; Task assignment; Papers writing; System maintenance and improvement (Project Management, Teamwork)
 - Design of ontology database, methods of knowledge extraction and reasoning (Ontology Research, Knowledge Engineering)
 - Design and development of the Python operation library AutoProtégé for the ontology editing tool Protégé
 - Development of CMRH-KG Information System (<https://gzknowledge.cn>) (Technology Stack: React, SpringBoot, Jena)
 - Design and application of the information double-layer retrieval model.
 - Design and application of the spatiotemporal knowledge model.
- Outputs:** Successful Acceptance of the Project; 1 Information Retrieval System (CMRH-KG); 1 Python-based Third-party Library (AutoProtégé); 1 EI Paper (Published); 1 CSSCI Paper (Under Review); 1 Software Copyright.
- May. 2020-Mar. 2022 **Research and Application of Digitalization of Long March Red Cultural Resources Based on Knowledge Graph**
Beijing Normal University, Zhuhai **Role: Backend Engineer**
Responsibility:
- App back-end technology selection, design and development (Technology Stack: Flask, Neo4j)
 - Participate in the design and construction of the underlying knowledge graph model; the cleaning, transformation and knowledge base storage of data (Knowledge Engineering)
- Outputs:** Successful Acceptance of the Project; 1 App Based on Knowledge Graph of Long March Red Culture; 2 Chinese Papers (Published).

May. 2020-
Present

Research on Evolution Model of Youth Subculture Based on Bullet-Screen Corpus

Beijing Normal University, Zhuhai

Role: Data Mining & Algorithm Engineer

Responsibility:

- Participate in data engineering such as bullet-screen comment crawler, data cleaning and storage; project database bullet-screen comment data volume reaches 50 million (Python crawler and text preprocessing)
- Responsible for text mining and text classification research of bullet-screen corpus, including sentiment analysis and text stance detection (using rules, statistical machine learning and deep learning methods)
- Research on new word discovery algorithms in the field of bullet-screen comment.
- Research on the construction and application of subculture bullet-screen corpus.

Outputs: Successful Acceptance of the Project; 1 Billbill Bullet-Screen Corpus; 1 CSCD Paper (Accepted); 1 Chinese Paper (Accepted) and 1 EI Paper (Under Review)

Work experience

Jan. 2022-
Present

Research Assistant(Full-time) in School of Management, Beijing Normal University, Zhuhai, Zhuhai, China

Responsibility :

- Conducted research on the intelligent question answering system for the history of modern Chinese revolution, and completed the construction of the v1.0 version system.
- Conducted research on text mining and classification of BillBill community bullet-screen comment. I am mainly responsible for the stance detection research, experimental implementation and model comparison of the bullet-screen comment text.

Jul. 2021-
Jan. 2022

Development Intern(Full-time) in Orient Overseas Container Line (China) Ltd. Zhuhai, China

Responsibility :

- Participate in the maintenance and development of the interface of the OOCL shipping logistics system My OOCL Center (MOC), etc., mainly responsible for the shipping order function module; support and repair the needs and feedback bugs of customers and business departments (Technology Stack: J2EE, JSP , Oracle, WebLogic, Apache Ant)
- Participated in the reconstruction and development of OOCL container equipment transfer order system (EIR); (Technical Stack: Vue, SpringBoot, Oracle, Hibernate)

Scholarship and Award

2019

National Second Prize & First Prize of Guangdong Province in *the 7th Teddy Cup Data Mining Challenge* (Title: Analysis of Safe Driving Behavior of Transport Vehicles), 2019

China University Big Data Education Innovation Alliance & Society for Industrial and Applied Mathematics of Guangdong Province

2021

First Prize in *2021 China University Students Mathematical Contest in Modeling, Guangdong Division* (Title: Credit Decisions of Small, Medium and Micro Enterprises)

Society for Industrial and Applied Mathematics

2021

Best Oral Presentation Award in *the 10th IEEE International Conference on Education and Information Technology*

Conference Organizing Committee of ICEIT 2021

2020

Third prize in *the 8th “Challenge Cup” College Students’ Extracurricular Academic Science and Technology Works Competition in Beijing Normal University, Zhuhai*

Beijing Normal University, Zhuhai

Campus Experience/ Activity

Sept. 2020-
present

Student Career Development Association of School of Management

Role: Director of Information Development Department

- Responsible for the daily operation of the association's official account, formulate the content of the official account (more than 70 tweets have been produced and modified in total), as well as 2 large-scale event video productions and multiple HTML5 invitation letter productions; department recruitment: plan and follow up the whole process of publicity, interview and training.
- Won the “Excellent Minister of the Month” and “Special Contribution Award” during his tenure as a minister, leading the department to win “Sector of the Year”.

Hobby

- Painting; Calligraphy;
- Sports (e.g. badminton, running swimming).

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