

Phone [REDACTED]
Email: xiaohanna.hust@gmail.com

Education

Huazhong University of Science and Technology Wuhan, China
Master of Medical Management Information Systems 09/2020-06/2023
Research Area: Modeling and intervention evaluation of public health emergencies.
Goethe University Frankfurt Frankfurt, German
Semester Abroad (Business Analysis) 01/2019-02/2019
Xidian University Xi'an, China
Master of Management Industrial Engineering 09/2016-07/2020
Key Courses (Final grade average: A): Engineering Economics; Applied Statistics; Operational Research

Publications

- Ma Xiaohan, Ouyang Hui, AI Shizhong, Wu Xiang. Diffusion Model and Platform Strategy of Medical Crowdfunding Projects based on Agent-based Modeling[J]. Journal of Information Resources Management (Revised and Resubmitted).
- Ouyang Hui, Ma Xiaohan, Wu Xiang. The prevalence and determinants of COVID-19 vaccine hesitancy in the age of infodemic[J]. Human Vaccines & Immunotherapeutics, 18(1): 2013694.
- Shiyuan Yu, Ma Xiaohan, Wu Xiang. The impact of wearable devices on physical activity for chronic patients[J]. Information Technology & People (Submitted).
- Ma Xiaohan, Wu Xiang. The influence of prosocial motivation on vaccination and disease diffusion based on Agent-based modelling (Manuscript).
- "A review of the impact of health policies on COVID-19 transmission", Li Zemin, Ma Xiaohan. Presented at the 33rd China Simulation Conference and the 21st Asian Simulation Conference.

Research Experiences

Research Assistant, Department of Medicine and Health Management, HUST
Disease Diffusion Research. Team Leader 09/2020-Present

- Constructed vaccination behaviour and disease diffusion mechanism.
- Developed an R package aiming to analyze COVID-19 diffusion and policy interventions.
- Assist in designing simulation experiments (screening experiment and formal experiment) and analysing simulation results.

National Natural Science Foundation of China (72071090): Research on self-management mechanism and optimization strategy of chronic diseases based on intelligent wearable devices. Participant 10/2021-06/2021

- Search relevant literature and sort out core theories.
- Entered, summarized and visualized survey data using R.

Research Assistant, Department of Economics and Management, Xidian University
Thesis (Excellent graduation thesis): Diffusion Model and Platform Strategy of Medical Crowdfunding Projects based on Agent-based Modeling. 06/2019-06/2020

- Designed an individual-decision mechanism of forwarding medical crowdfunding projects on social media.
- Constructed mathematical model of the individual-decision mechanism based on Bass diffusion model.
- Developed a simulation model based on agent-based modelling; Analyzed diffusion process and platform strategies using R.

Internships

United Nations Conference on Trade and Development

Methodology unit of the Statistical Service Intern

Geneva, Switzerland

08/2022-Present

- Proofread R scripts and highlight points in code that need further explanation; Test statistical software to measure services trade developed at the Statistics Service and report bugs.
- Prepare data visualization and infographics; Assist in the preparation of the Handbook of Statistics.

Tencent Cloud Computing (Xi'an) Co., Ltd.

Administrative Assistant Intern

Xi'an, China

07/2020-09/2020

- Organized employee activities, scheduled meetings and coordinated appointments.
- Streamlined communication between executives in other departments.

Midea Group Co., Ltd.

Technical Project Manager Intern

Guangdong, China

07/2019-09/2019

- Analyzed data including data cleaning, descriptive analysis and data visualization using R.
- Developed project documentation and built realistic, functional product prototypes using Axure.

Extra-curricular Activities

- 2/08/2021-20/08/2021 United Nations Internship Preparation Programme by United Nations Institute for Training and Research. Participated in webinars focusing on inclusive leadership, public speaking skills and negotiation skills.
- 01/2021-02/2021 Summer Global Youth Forum 2021 by International Training Centre of International Labor Organization. Analyzed the linkage of various objectives in SDGs with different cultural backgrounds and designed a group project for achieving SDG4.
- 04/2018-07/2018 Business analysis competition. Investigated the bus stations in Germany on the spot and analyzed the improvement needs.
- 04/2018-07/2018 Marketing competition. Analyzed questionnaire data and proposed solutions for the development of local tourism.
- 04/2017-07/2017 Entrepreneurship competition. Collaborated with a team to design a robot for inheriting Chinese traditional culture.

Awards

- The First Prize Scholarship (2019-2020); The Second Prize Scholarship (2020-2021) by Huazhong University of Science and Technology.
- Technological Innovation Award (2016-2017), Excellent Volunteer Team (2017) by Xidian University.
- The Second Prize Scholarship (2017-2018; 2018-2019) by Xidian University.
- Excellent graduation thesis (2020) by Xidian University.
- The First prize in Business Analysis Competition by Goethe University Frankfurt.
- Excellent Team Award of a Marketing Competition (2018) by Shaanxi province.

Skills and Languages

- Skills: R, Python, R packages analyzing disease diffusion, agent-based modelling, mathematical modelling; simulation experiment.
- Languages: Chinese, English (IELTS 7.0), German (Basic level), French (Basic level).

Date of Birth: 02.12.1997 | Nationality: Chinese
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OVERVIEW

- Master's degree in Medical Information Systems
- Solid knowledge of the United Nations system
- Proficient in data analysis tools: R, Python, Excel
- Bachelor's degree in Management Industrial Engineering
- Fluent in Chinese, English, French and German
- Experience in developing R packages analyzing disease diffusion

EDUCATION

Huazhong University of Science and Technology		Wuhan, China
M.A. in MIS	Focus on Health Information Management and Econometrics Research Area: Modeling and intervention evaluation of public health emergencies <u>Master Thesis</u> : "The influence of prosocial motivation on vaccination and disease diffusion based on Agent-based modeling"	Sep 2020 – Jun 2023
United Nations Institute for Training and Research		Online
Training Program	Focus on International Politics and The UN Systems Final grade average: (A)	17 Jan 2022 – 13 Feb 2022
International Training Centre of International Labor Organization		Online
Training Program	Focus on Sustainable Development Goals and Solutions Final grade average: (A)	2 Aug 2021 – 20 Aug 2021
Goethe University Frankfurt		Frankfurt, German
Semester Abroad	Focus on Business Analysis Final grade average: (A)	Jan 2019 – Feb 2019
Xidian University		Xi'an, China
B.A. in MIE	Focus on Applied Statistics, Project Management and Engineering Economics Final grade average: (A) <u>Bachelor Thesis</u> : "Diffusion Model and Platform Strategy of Medical Crowdfunding Projects based on Agent-based Modeling"	Sep 2016 – Jun 2020

RESEARCH EXPERIENCE

Publications and Presentation

1. **Ma Xiaohan**, Ouyang Hui, Ai Shizhong, Wu Xiang. Diffusion Model and Platform Strategy of Medical Crowdfunding Projects based on Agent-based Modeling[J]. *Journal of Information Resources Management* (Revised and Resubmitted).
2. Ouyang Hui, **Ma Xiaohan**, Wu Xiang. The prevalence and determinants of COVID-19 vaccine hesitancy in the age of infodemic[J]. *Human Vaccines & Immunotherapeutics*, 18(1): 2013694.
3. Shiyuan Yu, **Ma Xiaohan**, Wu Xiang. The impact of wearable devices on physical activity for chronic patients[J]. *The Journal of the American Medical Association* (Revised and Resubmitted).
4. **Ma Xiaohan**, Wu Xiang. The influence of prosocial motivation on vaccination and disease diffusion based on Agent-based modeling. (Manuscript)
5. "A review of the impact of health policies on COVID-19 transmission", Li Zemin, **Ma Xiaohan**. Presented at The 33th China Simulation Conference and the 21st Asian Simulation Conference.

Research Assistant, Department of Medicine and Health Management, HUST

1. **Disease Diffusion Research, Team Leader** Sep 2020 - Sep 2021
 - Constructed vaccination behavior and disease diffusion mechanism using agent-based modeling and utility theory.
 - Led a team to develop an R package for research work aiming to analyze COVID-19 diffusion and policy interventions.
2. **National Natural Science Foundation of China (72071090): Research on self-management mechanism and optimization strategy of chronic diseases based on Intelligent wearable devices, Participant** Oct 2021 - Jun 2022
 - Search relevant literature and sort out core theories
 - Entered, summarized and visualized survey data using R

PROFESSIONAL EXPERIENCE

Tencent Cloud Computing (Xi'an) Co., Ltd.

Administrative Assistant Intern

Xi'an, China
Jul 2020 - Sep 2020

- Organized employee activities including sports events, team-building activities and workplace Parties.
- Scheduled meetings, coordinated appointments and made minutes and summary of the meeting.
- Streamlined communication between executives in other departments.

Midea Group Co., Ltd.

Technical Project Manager Intern

Guangdong, China
Jul 2019 – Sep 2019

- Oversaw the daily tasks of technical personnel and assisted senior Technical Project Manager in all duties, including planning, analysis and scheduling.
- Analyzed data including data cleaning, descriptive analysis and data visualization using R.
- Developed project documentation and built realistic, functional product prototypes using Axure.

EXTRA-CURRICULAR ACTIVITIES

Nature Online Courses by Springer Nature: Data Analysis: Planning and Preparing; Conducting and Troubleshooting

Online
Jun 2021 – Jul 2021

Course Participant

Accomplished courses of research data analysis, Speakers included Prof. Joao Monteiro, Prof. Joao Monteiro, Prof. Bronwyn Wake Prof. Xavier Vilasis-Cardona and others.

Team Project Experiences

Team Leader/Member

- Analyzed the linkage of various objectives in SDGs with different cultural backgrounds in Summer Global Youth Forum 2021

Online
Aug 2021 – Aug 2021

- Investigated the bus stations in Germany on the spot and analyzed the improvement needs; Collaborated students of Goethe University Frankfurt and won the first prize of business contest(1/20).

Frankfurt, German
Jan 2019 – Feb 2019

- Organized a team to conduct field research in a poverty area; Analyzed questionnaire data and proposed solutions for the development of local tourism; Won the provincial excellent Team Award of a Marketing Competition.

Xi'an, China
Apr 2018 – Jul 2018

- Collaborated with a team to design a robot for inheriting Chinese traditional culture; Collected relevant data and wrote a business plan; Cooperated with the local history museum and exhibited the product in the museum.

Xi'an, China
Apr 2017 – Jul 2017

Volunteer Experiences

- A member of Local charity service center which mainly focus on education.

Xi'an, China
Feb 2022 - Present

- Organized a volunteer team to help over 500 high school students apply to college.

Xi'an, China
Jun 2018

FELLOWSHIPS & AWARDS

Fellowships

- The First Prize Scholarship (2019-2020), The Second Prize Scholarship (2020-2021) by Huazhong University of Science and Technology

- Technological Innovation Award (2016-2017), The Second Prize Scholarship (2017-2018; 2018-2019) by Xidian University

Awards

- Excellent graduation thesis (2020) by Xidian University

- The First prize of Business Analysis Competition by Goethe University Frankfurt

- Excellent Volunteer Team (2017) by Xidian University

- Excellent Team Award of a Marketing Competition by Shaanxi province

LANGUAGES AND SKILLS

Languages

Chinese: Mother Tongue
English: Fluent Speaker (IELTS 7.0)
German: Basic Knowledge
French: Basic Knowledge

Skills

Interpersonal skills: high cross-cultural sensitivity and adaptation capacity
Professional skills: strong public speaking and presentation skills
Computer skills: advanced knowledge of MS Office and social media
Research skills: research data analysis using R; agent-based modeling; mathematical modeling; simulation experiment