

## CURRICULUM VITAE

RUIYUN (RAYNA) XU

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### EMPLOYMENT

2023-present	Assistant Professor, Farmer School of Business, Miami University, Oxford, Ohio, USA
2021-2023	International Postdoctoral Fellow, Shenzhen Research Institute of Big Data, The Chinese University of Hong Kong, Shenzhen
2020-2021	Senior Research Assistant, Faculty of Business and Economics, The University of Hong Kong

### EDUCATION

2014-2020	City University of Hong Kong <i>Ph.D. in Information Systems</i>	Hong Kong
2010-2014	Beijing Foreign Studies University <i>B.S. in Computer Science</i>	Beijing, China

### RESEARCH INTERESTS

FinTech, Artificial Intelligence, Data Analytics, Machine Learning, Healthcare Analytics, Blockchain

### TEACHING INTERESTS

Programming, Artificial Intelligence, Database, Distributed Computing and Storage, Data Analytics, Applied Machine Learning, Data Visualization

### PUBLICATIONS

- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao. 2023. SocioLink: Leveraging Relational Information in Knowledge Graphs for Startup Recommendations. *Journal of Management Information Systems*, **FT-50**.
- Fan, Shaokun, Noyan Ilk, Akhil Kumar, Ruiyun Xu, J. Leon Zhao. 2022. From File Processing to Blockchain Networking: A Recount and Projection of Information Systems Research. *Quarterly Journal of Economics and Management*.

### WORKING PAPERS

1. Mu, Wen, Jiang Xu, Ruiyun Xu. 2022. Legitimation through Optimal Distinctiveness: Business Proximity and Legitimacy Attainment in Emerging-Technology Start-ups (Revise and Resubmit at *Strategic Entrepreneurship Journal*, **FT-50**).
2. Xu, Ruiyun, Jiyin Cao, Hailiang Chen, J. Leon Zhao. A Unified Measure of Social Proximity based on Graph Embedding for Organizational Studies (under final preparation for submission to *Management Science*, **UTD-24**).

3. Xu, Ruiyun, Yue (Katherine) Feng, Hailiang Chen. ChatGPT vs. Google: A Comparative Study of Search Performance and User Experience (under final preparation for submission to *Management Science*, **UTD-24**). \*All authors contributed equally.

## **PATENTS**

- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao. “Searching Electronic Documents Based on Example-based Search Query”, 2020. (U.S. Patent No. 11386164; Filing Number 15/930,647). U.S. Patent and Trademark Office. July 12, 2022.
- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao. “System and Method for Conducting a Textual Data Search”, 2017. (U.S. Patent No. 10747759; Filing Number 15/631,077). U.S. Patent and Trademark Office. August 18, 2020.

## **CONFERENCE PROCEEDINGS**

- Xu, Ruiyun, Yue (Katherine) Feng, Hailiang Chen. 2023. ChatGPT vs. Google: A Comparative Study of Search Performance and User Experience. *Conference on Information Systems and Technology (CIST)*.
- Li, Litao, Ruiyun Xu, J. Leon Zhao. 2023. Metaverse Knowledge Graph Construction: An Unsupervised Relation Extraction Approach based on Semantic Mining. *Americas Conference on Information Systems (AMCIS)*.
- Xu, Ruiyun, Zhanbo Wang, and J. Leon Zhao. 2022. A Novel Blockchain-Driven Framework for Deterring Fraud in Supply Chain Finance, The 2022 *IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC)*, Prague, Czech Republic.
- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao. 2020. Measuring Social Proximity via Knowledge Graph Embedding. *International Conference on Information Systems (ICIS)*, Virtual.
- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao. 2018. smartCVC: A Novel Startup Selection Method for Corporate Venture Capital. *International Conference on Information Systems (ICIS)*, San Francisco, CA.
- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao 2018. smartCVC: Data Science Meets Corporate Venture Capital. *Americas Conference on Information Systems (AMCIS)*, New Orleans, LA, USA.
- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao. 2017. Predicting Corporate Venture Capital Investment. *International Conference on Information Systems (ICIS)*, Seoul, South Korea.
- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao. 2017. A Fast and Comprehensive Literature Search Tool for Information Systems Researchers. *International Conference on Information Systems (ICIS)*, Seoul, South Korea.
- Xu, Ruiyun, Hailiang Chen, J. Leon Zhao. 2016. Topic Associations in Document Models for Ad Hoc Information Retrieval. *Pacific Asia Conference on Information Systems (PACIS)*, Chiayi, Taiwan.

## **PRESENTATIONS**

- “Measuring Social Proximity via Knowledge Graph Embedding” (with Hailiang Chen and J. Leon Zhao), Conference on Information Systems and Technology (CIST), Virtual Conference, November 2020.
- “smartCVC: A Novel Startup Selection Method for Corporate Venture Capital” (with Hailiang Chen and J. Leon Zhao), Conference on Information Systems and Technology (CIST), Phoenix, USA, November 2018.

- “smartCVC: Data Science Meets Corporate Venture Capital” (with Hailiang Chen and J. Leon Zhao), Conference on Data Science for Business and Economics at Purdue University, West Lafayette, IN, USA, May 2018.
- “A Novel Literature Retrieval Model based on Wisdom of Crowds in the Citation Network” (with Hailiang Chen and J. Leon Zhao), The Informs Annual Meeting, Houston, United States, October 2017.
- “Abstract-based Literature Search for Information Systems Researchers” (with Hailiang Chen and J. Leon Zhao), The 11th China Summer Workshop on Information Management (CSWIM 2017), Nanjing, China, June 2017.

## TEACHING EXPERIENCE

The Chinese University of Hong Kong, Shenzhen

- IBA6104 Programming for Business and Economics: 2021/22 Fall, Role: **Instructor**, Enrollment: 105, Evaluation Score: 5.53/6.0, Response Rate: 83.81%
- IBA6001 Introduction to Artificial Intelligence: 2021 Summer, Role: **Instructor**, Enrollment: 93, Evaluation Score: 5.89/6.0, Response Rate: 60.22%
- IBA6311 Blockchain Technology and Applications, 2022/23 Fall, Role: Teaching Assistant

City University of Hong Kong

- Undergraduate Capstone Project Course: FinTech Talent Training Program: 2017/18 Spring, Role: Guest Lecturer
  - Project: “RegTech for Anti-Money Laundering (AML) Compliance”  
Lecture 1: Natural Language Processing and Information Retrieval
  - Project: “Data Science for Commercial Banking”  
Lecture 2: Classification and Prediction
- EMBA Course: Business Models and Innovation in Big Data Era: 2015/16 Fall, 2016/17 Spring, 2017/18 Spring, and 2019/20 Fall, Role: Teaching Assistant
  - Tutorial 1: “Data Visualization for Corporate Management”
  - Tutorial 2: “Deep Learning and Business Analytics”

## RESEARCH GRANTS

- Project Member: “Big Data Driven Analytics and Decision Making in the Motion Picture Industry”, **Major Research Plan / Fostering Program** – Natural Science Foundation of China, 2018-2020.
- Project Member: “Blockchain Security and Protection Mechanism and Algorithms”, **Fundamental Research** – Shenzhen Science and Technology Innovation Commission, China, 2017-2020.

## HONORS AND AWARDS

Research Tuition Scholarship (Top 10%), City University of Hong Kong, 2016-2018  
Outstanding Academic Performance Award, City University of Hong Kong, 2016-2018  
Postgraduate Studentship, City University of Hong Kong, 2014-2018  
Beijing Outstanding Graduate (Top 1%), Beijing Foreign Studies University, 2014  
Outstanding Undergraduate Dissertation Award, Beijing Foreign Studies University, 2014  
National Endeavor Fellowship, Beijing Municipal Commission of Education, 2013  
First-Class Scholarship for Excellent Students, Beijing Foreign Studies University, 2011

## **ACADEMIC SERVICES**

- Managing Editor: Special Issue on Blockchain Technology and Applications of Decision Support Systems Journal (DSS), 2022
- Conference Associate Editor: Pacific Asia Conference on Information Systems (PACIS) 2022: Mobile, IoT, and Ubiquitous Computing
- Journal Reviewer: Journal of Operations Management, Post-ICIS MIS Quarterly Reviewer Development Workshop; ACM Transactions on Management Information Systems (TMIS); Electronic Commerce Research (ECR); Information Systems Frontiers (ISF)
- Conference Reviewer: International Conference on Information Systems (ICIS); Conference on Information Systems and Technology (CIST); Workshop on Information Technologies and Systems (WITS); Pacific Asia Conference on Information Systems (PACIS); China Summer Workshop on Information Systems (CSWIM)
- Conference Coordinator: International Conference on Smart Finance (ICSF) 2021

## **TECHNICAL SKILLS**

Programming: Python, C/C++, Java, Matlab

Data Analysis & Statistics: Stata, R

Database: MySQL, Microsoft SQL Server, Neo4j

Web Development: JSP, HTML, CSS

Data Visualization: Gephi, Tableau