

# RUI LI

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## EDUCATION

**Renmin University of China**, Beijing, China 09/2020 – 06/2024 (expected)  
B.S. in Mathematics, GPA: 3.84/4, Rank: 1/19  
B.A. in Economics, GPA: 3.69/4, Rank: 6/19

## RESEARCH EXPERIENCE IN COMPUTER SCIENCE

**An Efficient Customized Blockchain System for Inter-Organizational Processes** Beijing, China  
Research Assistant, Advisor: Prof. Puwei Wang 09/2022 – 04/2023

Area: Inter-Organizational Services, Customized Blockchain System

- Customize a process engine for executing the inter-organizational business processes via a blockchain-style
- Propose a blockchain-based approach for service registration, binding and invocation
- Design a lease-based concurrency control protocol to logically isolate transactions from each other when invoking the services simultaneously

**Maximizing Network Reliability with Limited Monitoring Resources** Beijing, China  
Research Assistant, Advisor: Prof. Puwei Wang 02/2023 – 06/2023

Area: Operations research, Service-oriented Computing

- Propose cross-axis time to estimate the overall system reliability at each monitoring point
- Propose an optimization model to maximize the overall system reliability .

## RESEARCH EXPERIENCE IN ECONOMICS

**Electoral College versus Popular Vote** Beijing, China  
Research Assistant, Advisor: Prof. Zijia Wang 09/2022 – 01/2023

Area: Game theory, Contest theory

- Propose a stylized model of an election game with two candidates and multiple districts
- Compare *EC* and *PV* from the perspectives of winning chance, campaign expenditure, and inversion rate

## RELATED COURSES IN MATHEMATICS

- Partial differential equation (93, Final:97)
- Complex Analysis (90)
- Probability theory (97, Final:98)
- Analysis I,II,III (94,91,91)
- Functional analysis (94, Mid:97)
- Real Analysis (91)
- Abstract Algebra (83)
- Advanced Algebra I,II (82,90)

(Grading Policy is written in footnote)<sup>1</sup>

## RELATED COURSES IN ECONOMICS

- Industrial organization (99, Final:100)
- Information economics (90)

## RELATED COURSES IN COMPUTER SCIENCE

- Artificial intelligence and Python<sup>2</sup> (93, Final:97)
- Machine Learning (88)
- Programming I,II (90,90)

<sup>1</sup>Credit and grade point calculation method (grade/score/grade point): Credit and grade point calculation method (grade/score/grade point):  
A(90-100):4.0 A-(86-89):3.7 B+(83-85):3.3 B(80-82):3.0 B-(76-79):2.7  
C+(73-75):2.3 C(70-72):2.0 C-(66-69):1.7 D+(63-65):1.3 D(60-62):1.0

<sup>2</sup>Deep Learning

## SELECTED OPEN-SOURCE PROJECTS

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### Notes on Geometric Analysis on Graphs

07/2023 – 08/2023

- A latex notes in the field of geometric analysis on the graph
- Cover following topics: spectral graph theory, partial differential equations on graphs and Ricci curvature on graphs

### Asset Pricing via Machine Learning

03/2023 – 06/2023

Selected as an outstanding exemplary project by the Big Data and Artificial Intelligence Platform at Renmin University of China

- Initialized project with comprehensive functionality and high-quality software engineering standard
- Implemented advanced statistical models, including time series analysis and machine learning algorithms, to forecast stock returns and identify potential market trends
- Elucidated the causal mechanisms embedded within the models utilized in this project

## SELECTED AWARDS

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|---|------|
| • IEEE ICWS Best Paper Award  | 2023 |
| • National Undergraduate Training Program for Innovation and Entrepreneurship | 2022 |
| • Third prize, “Challenge Cup” National Contest                               | 2022 |

## PUBLICATIONS

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- Puwei Wang, Zhouxing Sun, **Rui Li**, Jinchuan Chen\*, Ping Gong, Xiaoyong Du, “An Efficient Customized Blockchain System for Inter-Organizational Processes,” **IEEE ICWS’23 Best Paper Award**

## SKILLS

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**Programming Languages:** Python, C/C++, R, Stata

**Frameworks:** PyTorch, Keras

**Tools:** Git, L<sup>A</sup>T<sub>E</sub>X, Typst

## LANGUAGE

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**CET6:** 551