

# XUAN LIU

✉ xuanliu1005@outlook.com

📍 Sydney, Australia ☎ (+61) 466343166

## PERSONAL PROFILE

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I am currently a research postgraduate student at The University of Sydney majoring in Data Science. I received my first master's degree in Industrial Economic from Wuhan University of Technology and bachelor's degree in Mathematics from Hebei Normal University. My research interests are in the area of **Computer Vision**. Particularly, I have experience on Computer Vision and Deep Learning.

## EDUCATION

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<b>University of Sydney</b> Master of Data Science (Research Pathway) <i>GPA (first semester): 4.00/4.00</i> <i>Course:</i> Machine Learning and Data Mining (88/100), Computational Statistical Methods (86/100)	Sydney, Australia Jul. 2023 - present
<b>Wuhan University of Technology</b> Master of Economics — Industrial Economics (Academic Master) <i>GPA: 3.78/4.00</i> <i>Course:</i> Intermediate Microeconomics (85/100), Intermediate Macroeconomics (85/100), Intermediate Econometrics (84/100)	Wuhan, China Sep. 2020 - June. 2023
<b>Hebei Normal University</b> Bachelor of Mathematics <i>GPA: 3.32/4.00</i> <i>Course:</i> Probability and Statistics (94/100), Modern Algebra (100/100), Point Set Topology (94/100), Advanced Algebra (84/100)	Shijiazhuang, China Sep. 2016 - Jun. 2020

## PUBLICATIONS & PRE-PRINT

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- Xuan Liu, F. M. (2023) **Research on the impact of national targeted investment on industrialization: Based on "156 projects"** (Master's thesis). Wuhan University of Technology.
- Xuan Liu. **Policy suggestions for optimizing the New Nationwide System—From the perspective of "156 Projects"**. 4th International Symposium on Frontiers of Economics and Management Science (FEMS 2023), Macao, China, 2023[C]. [\[link\]](#)

## RESEARCH EXPERIENCE

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<b>Wireless signal based Human Pose Estimation</b> <i>The University of Sydney</i> <i>Research Pathway Project</i> • Reproduce the paper model: Xie C, Zhang D, Wu Z, et al. RPM 2.0: RF-based Pose Machines for Multi-Person 3D Pose Estimation[J]. IEEE Transactions on Circuits and Systems for Video Technology, 2023. • Create a new multi-scale contrastive learning to deal with pose estimation with rare pose and strong reflection interference. • At this stage I am building models and conducting experiments.	<i>Feb. 2024 - Present</i> <i>Supervisor: Zhiyong Wang</i>
<b>Reality and Virtuality: Generating Wireless Communication Data</b> <i>The University of Sydney</i> <i>Summer Research Project</i> • Generate and collect Wi-Fi Channel State Information (CSI) from virtual environment and real world. • Set up a hardware environment to collect CSI data, for subsequent use in Wi-Fi based pose estimation.	<i>Dec. 2023 - Feb. 2024</i> <i>Supervisor: Dong Yuan</i>

## **The Long Term Impact of "156 Projects"**

Wuhan University of Technology

Feb. 2022 - May. 2023

Supervisor: Yanyan Tang

- Fill the gaps in the quantitative assessment of the long-term impact of the "156 Projects" in the two dimensions of time "vertical" and regional "horizontal".
- Explore the theoretical mechanism of the long-term impact of the "156 Projects", identify four "channel variables" and explain their impact, and analyze the long-term impact of project investment on the four "channel variables" respectively.

## **INTERN EXPERIENCE**

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### **Product Manager, JD.com, Platform Operation and Marketing Center**

Dec. 2022 - April. 2023

- Participate in the design and review process of the Short Product Details Page, contributing insights and expertise to ensure an effective and user-friendly design;
- Leveraged analytical skills to extract pertinent data for thorough analysis, enabling the estimation of Return on Investment (ROI) potential for new product initiatives;
- Fostered effective communication and collaboration between business, design, and Research & Development (R&D) teams, ensuring alignment of objectives and streamlined project execution;

### **Business Support, JD.com, Explore Academy**

Dec. 2021 - Sep. 2022

- Successfully participate in managing the end-to-end process of major international conferences, including the World Artificial Intelligence Conference (WAIC), ensuring seamless execution and exceeding participant expectations;
- Facilitated contract negotiations and compliance, liaising with stakeholders to ensure accurate representation of terms and effective resolution of any discrepancies;
- Produced engaging and informative content, including PowerPoint presentations, scripts, interviews, and speeches, effectively communicating complex concepts to diverse audiences;

## **ACTIVITIES**

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### **USU VTeam Volunteer, The University of Sydney**

Aug. 2023 - Present

### **Postgraduate Assistant, Wuhan University of Technology**

Sep. 2020 - Dec. 2021

## **AWARDS & SCHOLARSHIPS**

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- **Summer Scholarship, The University of Sydney** Dec. 2023 - Feb. 2024
- **The second prize of excellent student's scholarship, Wuhan University of Technology** 2020-2023
- **The second prize of excellent student's scholarship, Hebei Normal University** 2017-2020