

# Bingde Liu

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- GitHub: <https://github.com/harmonialeo>



## Education

<b>Wuhan University, China</b>	Bachelor of Communication Engineering	Sept 2018 ~ June 2022	GPA: 3.74/4.00
<b>University of Bristol, U.K.</b>	Financial Technology with Data Science (MSc)	Sept 2021 ~	Grade: Distinction

## Experience

- Sept 2018: Entered Wuhan University
- Sept 2019 ~ Sept 2020: **Research student at the Signal Processing Laboratory, School of Electronic Information, Wuhan University**
  - General science fund project of National Natural Science Foundation of China "Research on change detection of time series PolSAR image based on BPT expression" (No. 61771351)
  - Hubei Provincial Natural Science Foundation Innovation Group "Time and Frequency Domain Image Information Acquisition and Intelligent Recognition" Project (No.2018CFA006)
- Feb 2021 ~ June 2021: **Teaching assistant of curriculum "Speech signal processing"**
- July 2021 ~ Aug 2021: University of Bristol Intensive Selection Camp
- Sept 2021: Passed the Intensive Selection Camp to study in University of Bristol for MSc. degree in the final year of the Bachelor's degree (UOB - WHU - Robotics - 3+SS+1 partnership)
- June 2022: Graduated from Wuhan University.

## Accomplishments

<b>Luo Jia Outstanding International Transfer Scholarship</b>	<b>May 2022</b>
<b>Kaggle competition "Optiver Realized Volatility Prediction"</b>	
- Top37%	<b>Jan 2022</b>
<b>Concluding the National University Student Innovation Project "Synthetic Aperture Imaging Based on Event Camera"</b>	<b>Nov 2021</b>
<b>Mathematical Contest in Modeling 2021</b>	
- Successful Participant	<b>Apr 2021</b>
<b>Scholarship for outstanding students</b>	
- 2nd Prize ( Top15% in the last academic year )	<b>Sept 2020</b>
<b>Outstanding student of the school</b>	
- Top23% in the last academic year	<b>Sept 2020</b>
<b>Mathematical Contest in Modeling 2020</b>	
- Honorable Mention	<b>Apr 2020</b>
<b>Concluding the University Student Innovation Project "UAV-UGV Joint Target Search"</b>	<b>Mar 2020</b>
<b>Scholarship for outstanding students</b>	
- 3rd Prize ( Top30% in the last academic year )	<b>Sept 2019</b>
<b>Outstanding student of the school</b>	
- Top23% in the last academic year	<b>Sept 2019</b>
<b>7 software copyrights (issued by China National Copyright Protection Center)</b>	

## Publications

Liu, Bingde. "Learning the Trading Algorithm in Simulated Markets with Non-stationary Continuum Bandits." arXiv preprint arXiv:2208.02901 (2022).

Liu, Bingde. "Motion Robust High-Speed Light-weighted Object Detection with Event Camera." arXiv preprint arXiv:2208.11602 (2022).

## Skills

- Full Python data science work stack (Numpy, Pandas, Scipy, sklearn, etc.) and visualization tools such as Tableau
- Deep learning in Python (PyTorch, Tensorflow with keras)
- Use and maintenance of Linux servers (including lab servers and cloud servers on AWS)
- Database (MySQL)
- Academic writing (proficiency in LaTeX,; an enthusiastic blogger on Chinese technical forums)
- English (TOEFL: 102/120)
- Japanese (JLPT: N3)