

# ZHAO Yubo

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## EDUCATION

- The Hong Kong University of Science and Technology** HKSAR, China  
*Bachelor of Science - Data Science and Technology* *September 2021 - Present*  
*Achievements:* Dean's List, The S.S.Chern Class of elite and talented students in Mathematics  
*Courses:* Mathematics, Computer Science, Artificial Intelligence, Fundamentals of Business Finance...

## EXPERIENCE

- Deutsche Bank** HKSAR, China  
*Deutsche Bank Academy (on-site)* *Jun 2023 - Jul 2023*  
Engaged in Private Bank and Origination & Advisory division workshops, gaining professional financial knowledge through group case studies and bank simulation.
- Hong Kong Exchanges and Clearing Limited** HKSAR, China  
*Training (on-site)* *Feb 2023 - Mar 2023*
  - Training:** During the training session at HKEX, I engaged in case studies, and panel discussions, delving into how technology is transforming modern markets and the potential future trends in the exchange sector.
  - Machine Learning:** engaged in developing new machine learning algorithm to handle multimodal information for listing process in HKEX innovation lab.
- Gift-up Website** HKSAR, China  
*Student Developer (on-site)* *Dec 2021 - Feb 2022*  
Built a website which gives recommendations of gift selection based on input and settings by users (initiated and supervised by Prof. Sung Kim).
  - Recommendation System:** Utilized the GPT-2 model to enhance NLP which automatically integrates multi-channel and multi-lingual financial related information, and quickly classifies tendencies, emotions, and authenticity. Also constructed AI model by LSTM and RNN to build the recommendation system, achieving 92% accuracy.
- Neusoft & Dalian CNC** Dalian, China  
*Software Development Engineer Intern (on-site)* *Jul 2022 - Aug 2022*  
Contributed to the development and the maintenance of the data-middle-office.
  - Integration of pre-existing CRM System:** Integration of CRM system with other systems for the data-middle-office will standardize and unify the data which greatly enhance the availability and efficiency. The new framework gives full play to the analysis and application capabilities of traditional BI, and also centrally shares and flexibly processes data.

## RESEARCH

- Efficient numerical methods for dynamic interface:** Undergraduate Research Program supervised by Shing Yu LEUNG  
Starting from the framework of Symplectic Integrators, the research investigates methods for Hamiltonian of different orders, then computes and investigates their accuracy. Symplectic integration preserves continuous symmetries of the dynamical system, allowing larger time steps in discrete-time systems and making it more stable topologically than a three-sequence variant of the Nesterov acceleration method.
- Analysis and understanding of user behaviors in online communities (HCI):** Supervised by Professor MA Xiao Juan  
Design a quantitative and data-driven approach to gain insights into changes in women's self-awareness using statistical model, LIWC and BERT. Explore and analyze the performance of BERT unsupervised text classification with multiple clustering methods like BERT+IDEC and BERT+Mean+LN+EFCM, achieving 80% accuracy.

## HONORS AND AWARDS

- Dean's List of the School of Science
- The S.S.Chern Class Scholarship of Elite and Talented Students in Mathematics
- First Prize in China Mathematics Olympiad 2020
- Greater Bay Area Fintech Talent Initiative

## EXTRA-CURRICULAR ACTIVITIES

- Mainland Students and Scholars Society, UG Section (MSSSUG) Mentor** HKSAR, China  
*Organized events, prepared and conducted workshops reaching over 200 students.* *Jul 2022 - Present*
- Chinese Language Buddy Program (CLBP) Leader** HKSAR, China  
*Organized gatherings and workshops about Chinese language and culture for foreigners.* *Sep 2022 - Present*

## SKILLS SUMMARY

- Programming Languages:** Python, C++,  $\text{\LaTeX}$
- Frameworks:** Scikit, Pytorch, TensorFlow, Django
- Soft Skills:** Leadership, Event Management, Public Speaking
- Languages:** Chinese (native), English (proficient)