

# Bach Chi Le

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## Education

- 08/2023 - 05/2025 **Master of Science in Financial Engineering**  
*Lehigh University*  
Grade: 3.93/4.0
- 08/2020 - 07/2023 **Bachelor of Commerce in Finance and Economics**  
*University of Melbourne*  
Grade: First Class Honours (H1)

## Awards and Honors

- 2024 Graduate Business Life Leadership Award, *Lehigh University*
- 2024 Center for Financial Services Research Fellowship, *Lehigh University*
- 2023 Director's Scholarship, *Lehigh University*
- 2022 Melbourne International Undergraduate Scholarship, *University of Melbourne*
- 2020 Bachelor of Commerce Global Scholarship, *University of Melbourne*

## Publications

### Preprints

- 2025 **Tight Robustness Certificates and Wasserstein Distributional Attacks for Deep Neural Networks**  
**Le, B. C.**, Dao, T. V., Nguyen, B. T., & Chu, H. T. M.  
*arXiv preprint arXiv:2510.10000.*

### Presentations

- 01/2025 **Mixed versus Traditional Multiple Team Membership Configurations: Understanding Team Satisfaction through the Mediating Role of Identity and Moderating Effect of Intra-Team Conflict**  
Moore, O. A., Mchiri, A., Grady-Moreno, A., & **Le, B. C.**  
*Presented at the INGRoup 2025 Midyear Conference, Virtual.*

## Research Experience

### VinUniversity

- 06/2025 - Present **Mathematical Analysis of Modern Deep Learning Architectures**  
*Advisors: Prof. Binh T. Nguyen & Prof. Hong T. M. Chu*  
Investigating the stability and convergence of deep learning dynamics using tools from optimal transport, mean-field theory, and Lipschitz analysis.  
*Lehigh University*

- 09/2024 - 05/2025 **Adaptive Distributionally Robust Optimization for Time Series**  
*Advisor: Prof. Lam M. Nguyen*  
 Derived a tractable convex reformulation of the Adaptive Distributionally Robust Optimization problem for ensemble time series forecasting, analyzed its computational complexity, and validated its predictive performance.
- 04/2024 - 05/2025 **Risk Management in Deregulated Markets**  
*Advisor: Prof. Alberto J. Lamadrid*  
 Benchmarked risk management strategies in deregulated commodity markets, analyzed theoretical bounds, and derived equivalence conditions between Stochastic, Robust, and Info-Gap optimization frameworks.
- 01/2024 - 05/2025 **Optimal Structure of Pemantle's Min-Plus Binary Trees**  
*Advisor: Prof. Si Tang*  
 Studied the conjecture that balanced Pemantle's Min-Plus binary trees yield the maximal expected root value via probabilistic induction and computational verification.
- 11/2023 - 05/2025 **Statistical Analysis of Multiple Team Membership Dynamics**  
*Advisor: Prof. Ozias A. Moore*  
 Analyzed the effects of multiple team membership configurations using multi-level modeling and Monte Carlo simulation techniques to assess mediation pathways and organizational outcomes.  
*University of Melbourne*
- 09/2022 - 11/2022 **The Short Interest Effect in Stocks**  
*Advisors: Prof. Nitin Yadav & Prof. Peter L. Bossaerts*  
 Investigated the empirical persistence of the short interest anomaly in US equities by designing algorithmic strategies to isolate behavioral inefficiencies using momentum signals and mean-variance optimization.

## Teaching Experience

- 02/2026 - 06/2026 **MATH4010: Advanced Probability and Statistics**  
*VinUniversity*  
 Teaching Assistant

## Professional Experience

- 06/2024 - 08/2024 **Complex Securities & Financial Instruments Intern**  
*Stout Risius Ross, New York, NY*  
 Developed Monte Carlo simulations & pricing models for complex, illiquid instruments.
- 05/2024 - 04/2025 **Mathematics Consultant**  
*Outlier AI, San Francisco, CA*  
 Evaluated and refined mathematical reasoning in Large Language Models.
- 04/2023 - 04/2024 **Research Consultant**  
*WorldQuant, Hanoi, Vietnam*  
 Developed and backtested quantitative alpha strategies for global equity markets.