Zihan (Irene) Tang

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EDUCATION

The Chinese University of Hong Kong   Hong Kong
PhD in Finance   Aug 2023 – Present
New York University   New York, NY
Master of Financial Engineering   Sept 2021 – May 2023
- GPA: 3.98/4.0
- Major modules: Financial Risk Management, Stochastic Calculus

Dickinson College   Carlisle, PA
Bachelor of Mathematics
Bachelor of Quantitative Economics   Sept 2017 – May 2021
- *Honors: Summa Cum Laude*
- GPA: 3.97/4.0
- Major modules: Calculus, Integration and Infinite Series, Probability and Statistics, Linear Algebra, Abstract Algebra, Real Analysis, Complex Analysis, Graph Theory, Microeconomics, Macroeconomics, Applied Econometrics

RESEARCH & PROJECT EXPERIENCE

An Empirical Study on the Optimal Capital Structure   Sept 2022 – Dec 2022
Supervisor: Prof. David Shimko
- Analyzed current influencing elements and examined capital structure modeling ideas.
- Qualified costs and advantages of debt, taxes, and other considerations using option pricing model.
- Simulated the dynamic capital restructuring processes and developed an optimization model using updated M&M theory.

Development of the Financial Market and Economic Growth: A Literature Review
Supervisor: Prof. Nicola Tynan   Feb 2021 – May 2021
- Reviewed, classified, and assessed the reasoning's supporting economic theories and mathematical models.
- Gathered and analyzed the data in order to reveal the trajectory of the global and American financial markets' expansion.

Application of Abstract Algebra in Algebraic Coding Theory (Independent Study)   Oct 2019 – Dec 2019
Supervisor: Prof. Barry Tesman
- Held weekly discussions on Coset decoding, Matrix transformation, Rings, Fields, Linear and Cyclic codes.
- Created formal posters by connecting theorems and visualizing ideas and held open presentation on campus.

Graph Theory Approach to the Travelling Salesman Problem (Research Project)   Sept 2019 – Oct 2019
Supervisor: Prof. Barry Tesman
- Created an interactive mini lab in Java to demonstrate the TSP path selection algorithm's process.
- Increased model accuracy by 4% when compared to the initial suggested regression model.

Analysis of On Campus Water Usage by Living Situation (Research Project)   Jan 2019 – Mar 2019
Supervisor: Prof. Jeffrey Forrester
- Gathered data from the campus sustainability webpage and used R to address bias and missing values.
- Used pair t-test, interpreted findings and visualized regression results.

PROFESSIONAL EXPERIENCE

China International Capital Co., Ltd   Beijing
Dept of Investment Banking | Internship   Sept 2020 – Oct 2020
Plug and Play China   Beijing
Fintech Vertical | Venture Analysist   May 2020 – Dec 2020
Bank of China Head Office   Beijing
Dept of Risk Management | Internship   Jun 2019 – Aug 2019
Deloitte   Beijing
Dept of Audit | Internship   July 2018 – July 2018

ACADEMIC ACTIVITIES

Member of Mathematics & Computer Science Majors Committee, Dickinson College   2019 – 2021
- Student Representative. Evaluated courses regarding the structure and context, collected feedback from peers.

Teaching Assistant, Dickinson College   2018 – 2020
- Held office hours every week answering questions in courses of Single and Multi-variable Calculus, Linear Algebra.

Mathematics Seminar, Chinese Academy of Sciences   Sept 2021 – Dec 2021
- Participated in the discussions in Differential Geometry, topics included Levi-Civita symbol, Gradient operators and Laplace operators under curvilinear coordinates

AWARDS

- Graduate School of Engineering Scholarship, New York University   Sept 2021 – May 2023
- Dean's List, Dickinson College   2017 – 2019
- Phi Beta Kappa, National Academic Honor Society   May 2021
- Pi Mu Epsilon, National Honor Society of Mathematical Science   Apr 2021
- Alpha Lambda Delta, Association of College Honors Societies   Jan 2018

LANGUAGES & SKILLS

Languages: English, Mandarin, Korean
IT Skills: R, Stata, Latex, Excel, Python
Certificates: CFA Level I, FRM Level II