MSC ADVANCED TECHNOLOGY FOR FINANCIAL COMPUTING

DR VALERIO RESTOCCHI - PROGRAMME DIRECTOR

THE UNIVERSITY *of* EDINBURGH

informatics

WORLD-LEADING EDUCATION

27TH UNIVERSITY IN THE WORLD

20TH FOR COMPUTER SCIENCE

1ST IN THE UK FOR RESEARCH OUTPUT AND REAL-WORLD IMPACT

QS UNIVERSITY RANKING 2024 AND 2025

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TOP CAREER PROSPECTS

4TH IN UK FOR EMPLOYABILITY

98% OF OUR STUDENTS GET RELEVANT JOBS

PAST STUDENTS WORK IN LARGE **TECH** COMPANIES, CENTRAL **BANKS**, **FINTECHS**

EDINBURGH

CRIES IN ITALIAN

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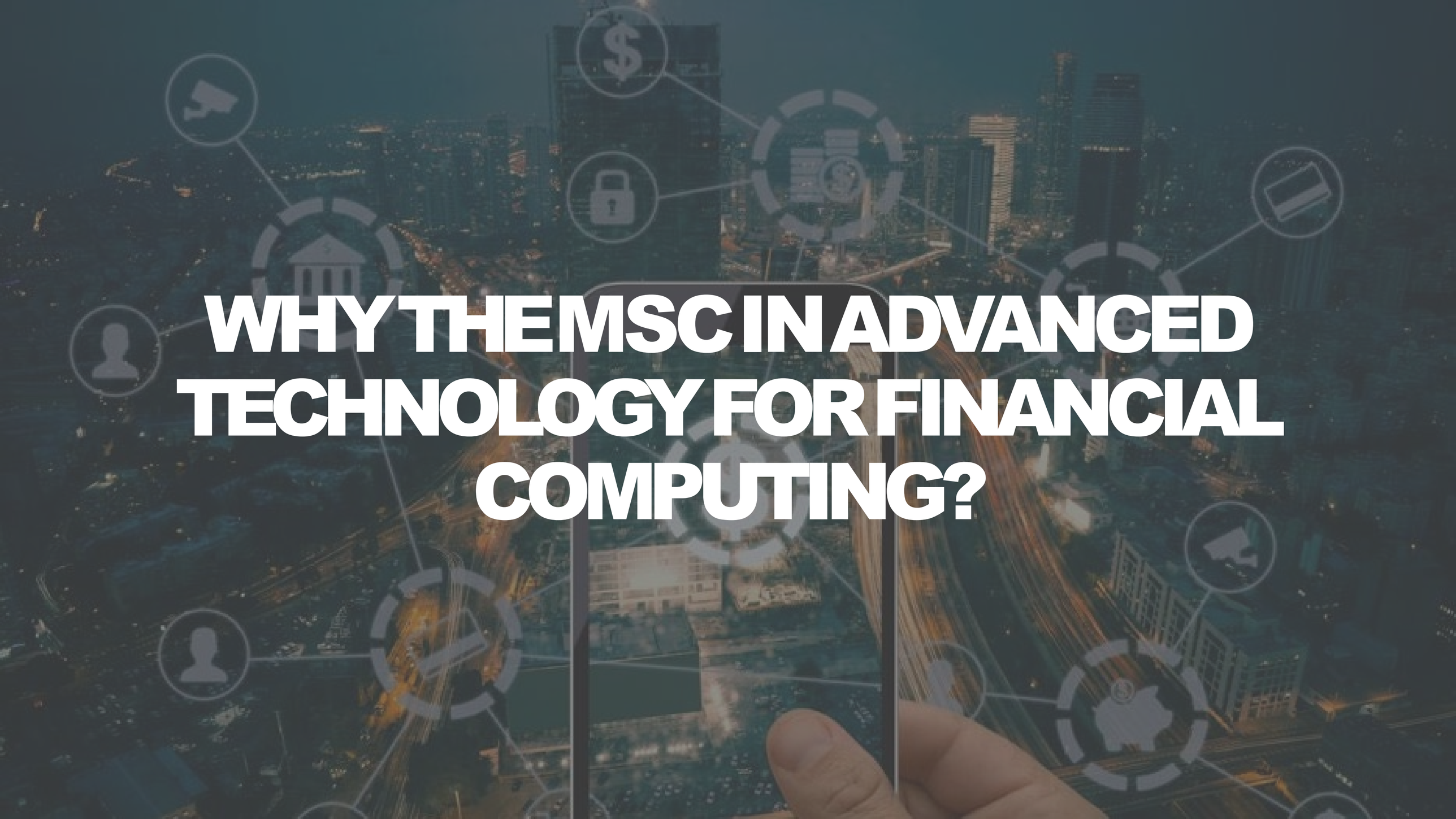
13TH BEST STUDENT CITY IN THE WORLD

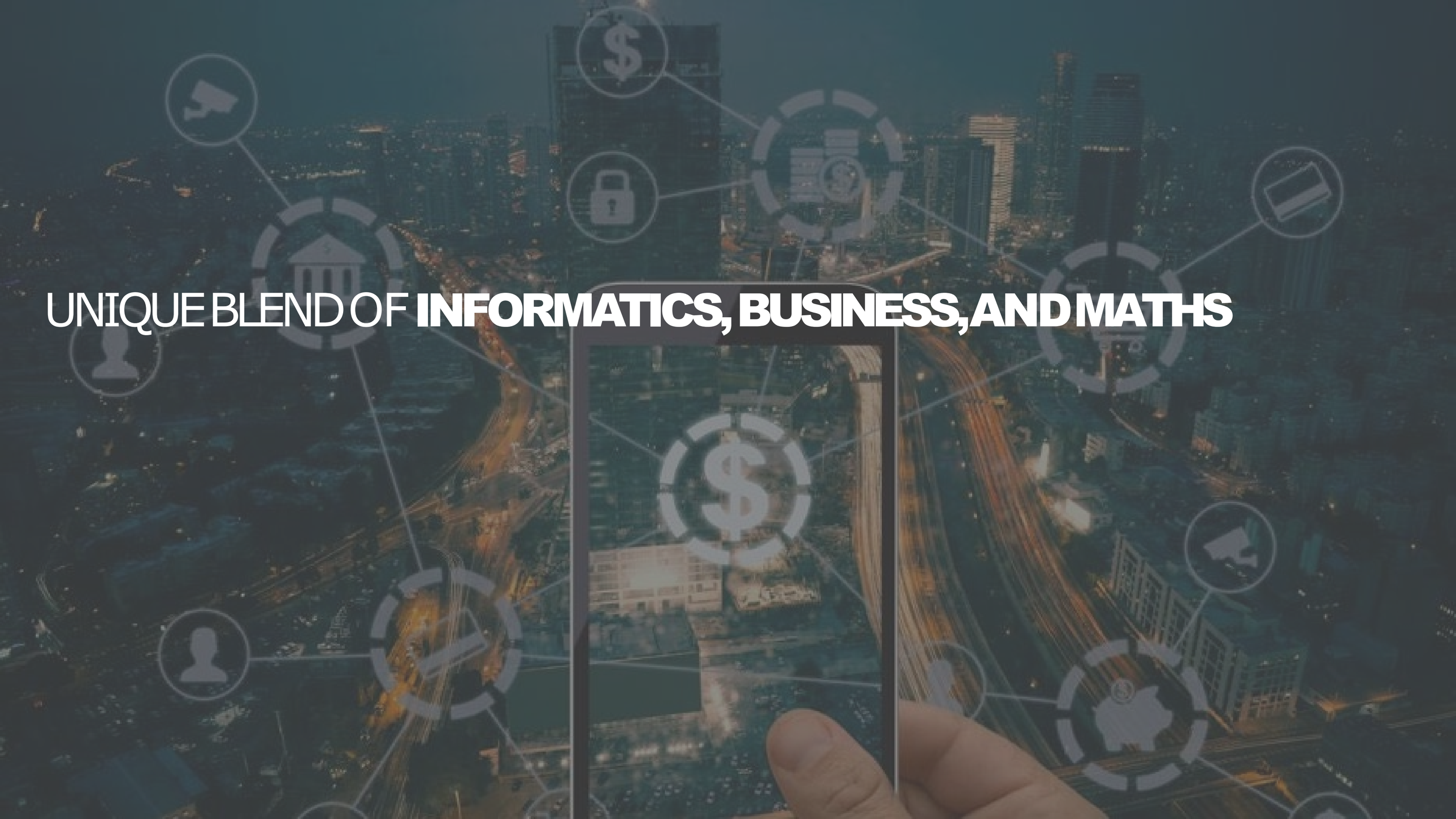
2ND BEST STUDENT CITY IN THE UK

LARGEST FINANCIAL CENTRE IN THE UK OUTSIDE LONDON

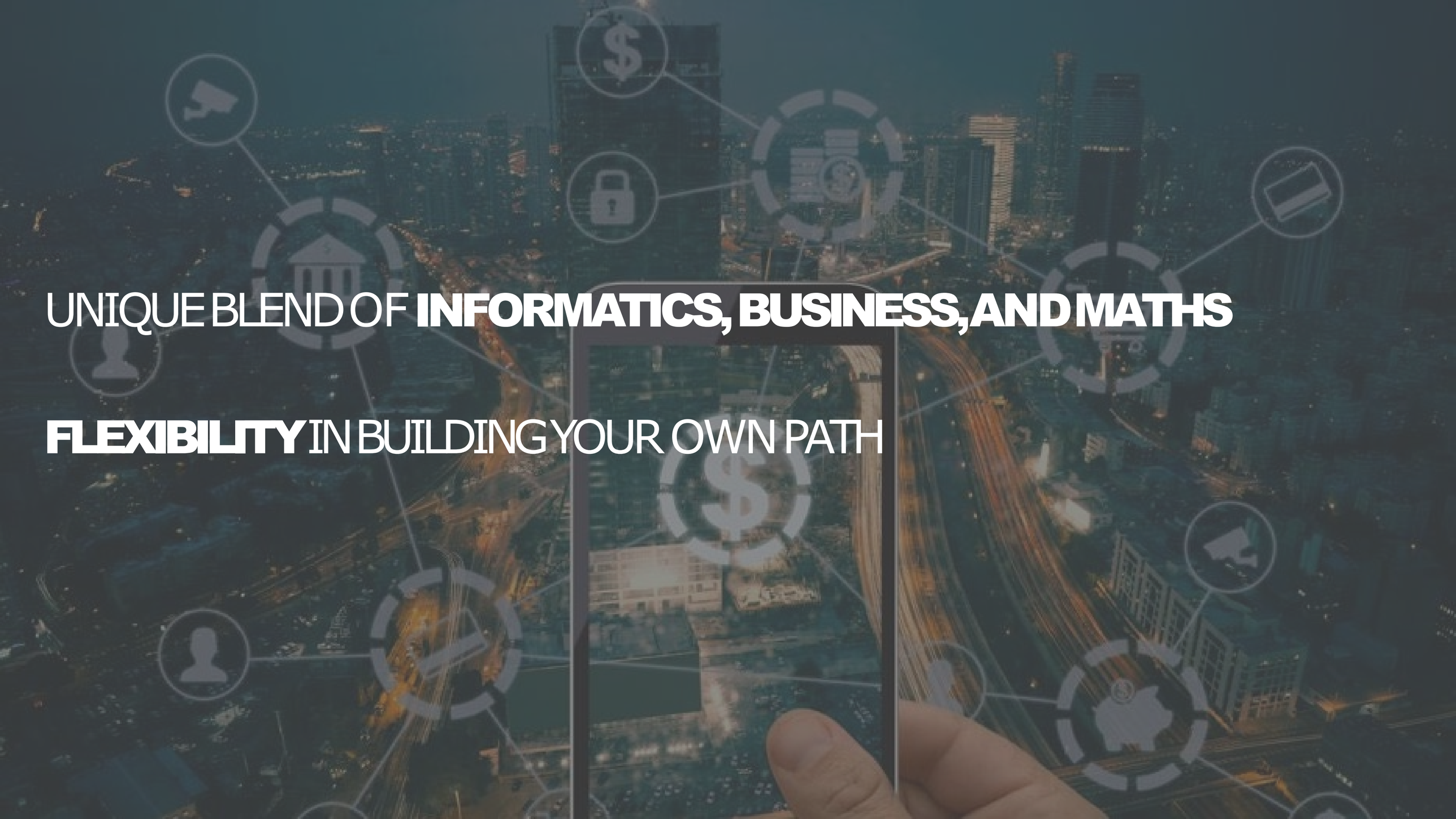
QS UNIVERSITY RANKING 2025



WHY THE MSC IN ADVANCED TECHNOLOGY FOR FINANCIAL COMPUTING?



UNIQUE BLEND OF **INFORMATICS, BUSINESS, AND MATHS**



UNIQUE BLEND OF **INFORMATICS, BUSINESS, AND MATHS**

FLEXIBILITY IN BUILDING YOUR OWN PATH

UNIQUE BLEND OF **INFORMATICS, BUSINESS, AND MATHS**
FLEXIBILITY IN BUILDING YOUR OWN PATH
CUTTING EDGE, TECH COURSES

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MANDATORY COURSES (60 CREDITS)

FINANCIAL NETWORKS

INTRODUCTORY APPLIED MACHINE LEARNING

INFORMATICS RESEARCH REVIEW

RESEARCH METHODS IN FINANCIAL COMPUTING

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ELECTIVE COURSES (60 CREDITS)

HALF OF THE CREDITS ARE ELECTIVE COURSES

SUGGESTED PATHS FOR **DIFFERENT TYPES OF LEADERS**:
FINTECH STRATEGIST, QUANT DEVELOPER, FINANCIAL SYSTEMS ARCHITECT

…OR **BUILD YOUR OWN** FROM 100+ COURSES!

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MSC DISSERTATION

3 MONTHS OF **RESEARCH** WORK

POSSIBILITY TO WORK ON **REAL-WORLD DATA** AND REAL-WORLD PROBLEMS

WE WORK WITH A LOT OF **COMPANIES** AND THEY LIKE OUR STUDENTS!

NETWORK ANALYSIS OF CARD TRANSACTIONS

DATA FROM **MASTERCARD AND BANKS**

IDENTIFY **SPENDING BEHAVIOURS**

REDUCE CO2 EMISSIONS THROUGH INCENTIVES

PREDICTING START-UP SUCCESS

DATA FROM **CRUNCHBASE**

ANALYSIS OF NETWORK PROPERTIES IN START-UPS

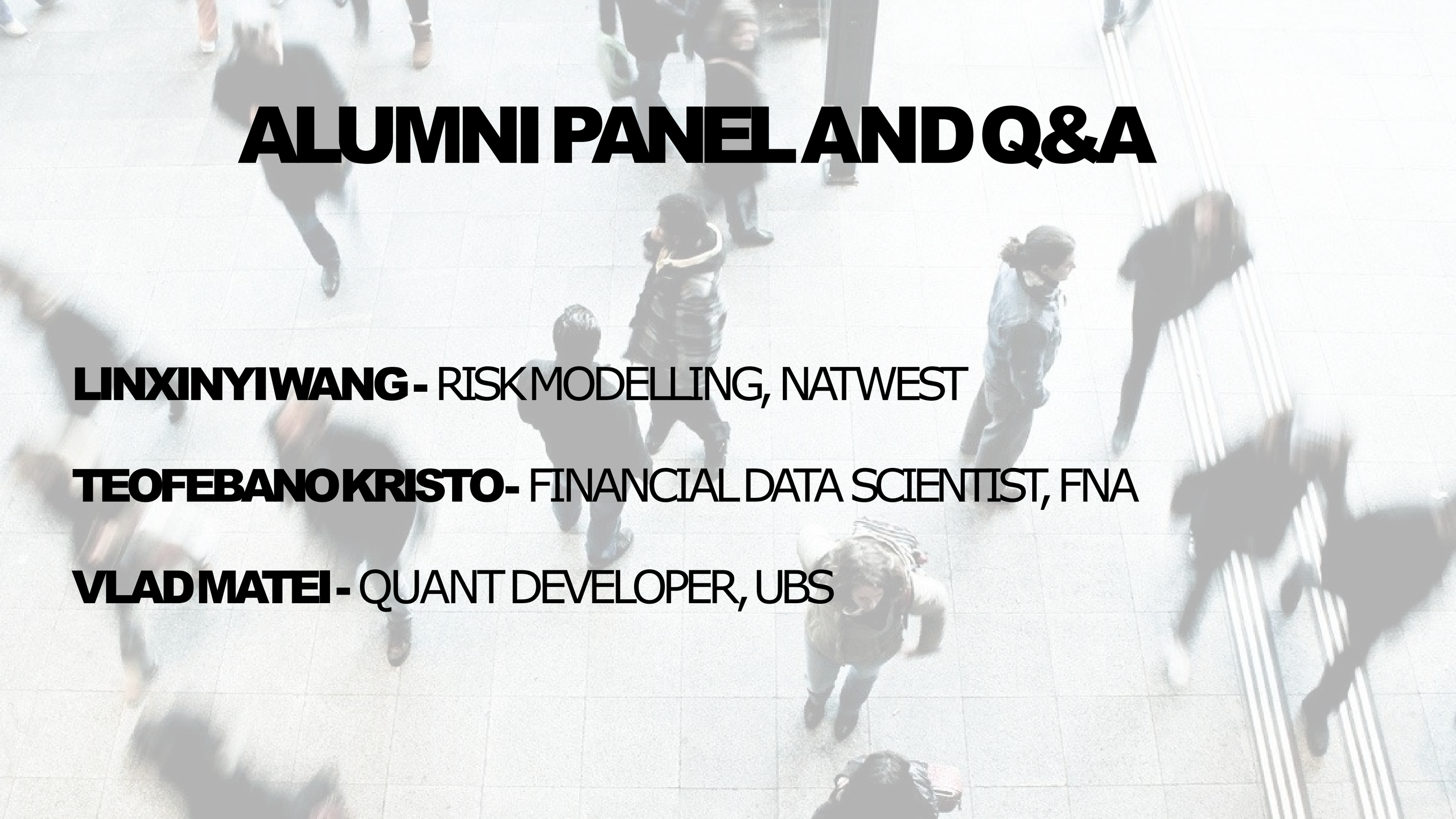
BETTER PREDICTION OF START-UP SUCCESS!

IDENTIFYING TRADING SIGNALS FROM STOCK PRICE PATTERN RECOGNITION AND TECHNICAL INDICATORS

REAL-WORLD **HISTORICAL STOCK** DATA

CUTTING-EDGE **MACHINE LEARNING TECHNIQUES**

IDENTIFICATION OF **SIGNALS**



ALUMNI PANEL AND Q&A

LINXINYI WANG - RISK MODELLING, NATWEST

TEOFEBANO KRISTO- FINANCIAL DATA SCIENTIST, FNA

VLAD MATEI - QUANT DEVELOPER, UBS

Linxinyi Wang

MSc Advanced Technology for Financial Computing, 2022-2023

Hometown: Kunming, China
Current Location: Edinburgh, UK
Career Interests: Data Analytics, Machine Learning, Risk Modelling

2018 – 2022:
- BSc (hons) Statistics, University of Nottingham (2+2)
- Example of Courses: Stochastic Models, Optimization, Scientific Computing and C++, Mathematics Finance, Time Series Analysis, Multivariate Analysis

2022 – 2023:
- MSc Advanced Technology for Financial Computing, University of Edinburgh
- Example of Courses:
  Algorithmic Game Theory, Blockchain, Data-driven Business and Behaviour Analytics, Machine learning
- Dissertation:
  A Case Study in Data Engineering on Companies House Dataset
  - Industry Partner: Datactics, data company in Belfast
  - Supervisor: Chris Williams

2023 – 2024:
- Risk Modelling Graduate Scheme, Natwest, Edinburgh
  - Unsecured Modelling (loan, credit card, overdraft)
  - Predict credit score using decision tree models

2025 onwards:
- Risk Model Validator, Natwest, Edinburgh
  - Validate Finance & Forecast models

The University of Nottingham

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NatWest

Royal Bank of Scotland

Teofebano Kristo

DATA SCIENTIST @FNA

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Jakarta, Indonesia

https://www.linkedin.com/in/teofebano-kristo/

2012
Began studying Software Engineering @ Institut Teknologi Bandung (ITB), Indonesia

2014
Joined Artificial Intelligence Laboratory in ITB as Teaching Assistant

2016
Graduate from ITB and joined Xendit, leading Payment Gateway company in Indonesia, as Software Engineer

2021
Successfully build global financial infrastructure to support Wise, Moneygram, and many other companies

2023
Began studying Advanced Technology in Financial Computing @ University of Edinburgh

2024
Graduate from UoE and joined FNA, global leader in advanced financial network analytics, as Data Scientist

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xtraordinary futures await

Vlad Matei

- 24 years old – currently working and living in London
  - Quant Developer at UBS
  - Currently working in a Delta One trading team, previous experience in Quant Analytics and Data Engineering in Algorithmic Trading
  - Day to day work consists of projects supporting the trading / sales desks
- BEng Computer Systems Engineering at Sheffield University
- Quite active person outside work and studies
  - Boxed for 12 years + running recently

Ultra X 110 Morocco – November 2023

Experience on the programme

- Why Edinburgh?
  - Reputation
  - Course structure
  - City – culture, natural landscape, food, student experience
    - The opportunity to study at such a historical university, while experiencing a city that everyone I had spoken to was praising highly

- Favourite courses on the programme?
  - Data-Driven Business and Behaviour Analytics
  - Text Technologies for Data Science
  - Financial Mathematics

Masters and my current job

- Helped in moving across teams into more business focused roles
- Directly applying financial market knowledge developed through courses (DDBBA / Financial Mathematics)
- Technical skills
  - Software Engineering, Quantitative Modelling, Mathematics
  - General problem solving
- Soft Skills
  - Working in teams, managing a demanding workload and juggling multiple deadlines at one time