



Name: Kecheng Shi
Award: Bachelor of Science with Honours
Field of study: Mathematics with Finance
Classification: Class I
Award Date: 15th July 2024

The University of Liverpool is a member of the Russell Group, which represents the 24 leading UK universities committed to maintaining the very best research, an outstanding teaching and learning experience and unrivalled links with business and the public sector.

This Higher Education Achievement Report incorporates the model developed by the European Commission, Council of Europe and UNESCO/CEPES for the Diploma Supplement.

The purpose of the Supplement is to provide sufficient recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context and status of the studies that were pursued and successfully completed by the individual named on the original qualifications to which this Supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

The University of Liverpool only produces HEARs in a digital format. Only HEARs accessed via <https://verify.liverpool.ac.uk> can be considered valid and verified.

INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1	Family name(s):	Shi
1.2	Given name(s):	Kecheng
1.3	Date of birth (day/month/year):	4th April 2002
1.4	Student identification number or code:	201676961
	HESA reference number:*	2211266769617

*HUSID (HESA Unique Student Identifier) is the unique national identifying number for students registered at a UK university. It is defined by HESA, the UK's Higher Education Statistics Agency.

INFORMATION IDENTIFYING THE QUALIFICATION

2.1	Name of qualification and (if applicable) title conferred:	Bachelor of Science with Honours The power to award degrees is regulated by law in the UK. This degree is part of a dual award, issued conjointly between the University of Liverpool (UK) and Xi'an Jiaotong-Liverpool University (China).
2.2	Main field(s) of study for the qualification:	Mathematics with Finance
2.3	Name and status of awarding institution(s):	This degree is awarded by the University of Liverpool, a university established by Royal Charter and a recognised body for the award of degrees.
2.4	Name and status of institution(s) (if different from 2.3) administering studies:	The holder of this Achievement Record was registered full time on an undergraduate programme delivered at Xi'an Jiaotong-Liverpool University (China) and the University of Liverpool (UK), leading to the University of Liverpool award indicated. Xi'an Jiaotong-Liverpool University is an independent university, recognised by the Chinese Ministry of Education, established in partnership between the University

of Liverpool and Xi'an Jiaotong University.

- 2.5 Language(s) of instruction/examination:** All teaching and assessment that leads to a University of Liverpool award is in English, except for programmes of study involving language studies, where some teaching and assessment is in the relevant language(s).

INFORMATION ON THE LEVEL OF THE QUALIFICATION

- 3.1 Level of qualification:** Undergraduate programme assigned to level 6 in the Framework for Higher Education Qualifications (see Section 8 for further details on the UK Higher Education System), and Bologna FQ-EHEA 1st cycle degree compatible
- 3.2 Official length of programme:** Four years
- 3.3 Access requirement(s):** Detailed information regarding admission to the programme is available in the University's Online Prospectus at <https://www.liverpool.ac.uk/study/undergraduate/courses>

INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:

2022-2023 - Full time

2023-2024 - Full time

4.2 Programme requirements:

This programme is designed primarily for those students who wish to work in quantitative finance or banking after graduation, and has great employment potential. The programme is accredited by the Institute and Faculty of Actuaries (IFoA), and students can receive exemptions for CT1, CT2, CT3 and CT4 of the professional actuarial exams conducted by The Institute and Faculty of Actuaries. This programme is designed to prepare students for a career in the banking sector, pension or investment funds, hedge funds, consultancy and auditing firms, or government regulators. The Mathematics with Finance course prepares students to be professionals who use mathematical models to analyse and solve financial problems under uncertainty. The programme will provide a useful perspective on how capital markets function in a modern economy.

1. To educate students in a broad range of topics covering important areas of mathematics with finance, with a focus on financial mathematics, statistics and probability;
2. To introduce students to advanced ideas in probability theory, and statistics as well as in stochastic modelling, econometrics and finance;
3. To prepare students for a career in the banking sector, pension or investment funds, hedge funds, consultancy and auditing firms or government regulators;
4. To prepare students for further studies in financial mathematics or related fields;
5. To develop the abilities of the students to work independently and with others to research, design, implement and execute creative solutions to practical problems.

A Bachelor's degree is normally obtained after three years full-time study or part-time equivalent. Modules totalling at least 90 (45 ECTS) should be at Level 5 in Year 2 and at Level 6 in Year 3. In the Honours Select programmes the modules in the minor subject components should be level 6 in year 3.

4.3 Programme details, and the individual grades/marks/credits obtained:

Programme Start Date: 26th September 2022

Programme End Date: 31st May 2024

2020-2021 - Xi'an Jiaotong-Liverpool University (China) - Year 0 (Foundation year)

Module Code	Title	Credits	ECTS	Semester	FHEQ Level	Grade	Result
CCT 007	Self-management	6	3	1	3	67	P
CCT 009	Introduction to Literature and Media Culture	6	3	1	3	61	P
EAP 029	Advanced English Communication and Academic Skills I	15	7.5	1	3	50	P
MTH 017	Linear Algebra for Mathematical Science	15	7.5	1	3	88	P
MTH 029	Calculus (Mathematical Sciences)	15	7.5	1	3	66	P
PHE 001	Physical Education 1	3	1.5	1	3	83	P
CCT 008	Ideological and Moral Cultivation and Basis of Law	6	3	2	3	66	P
CCT 010	The Modernization Process of China	6	3	2	3	61	P
EAP 038	Advanced English Communication and Academic Skills II	15	7.5	2	3	71	P
MTH 008	Multivariable Calculus (Science and Engineering)	15	7.5	2	3	70	P
MTH 016	Introduction to Financial Modelling	15	7.5	2	3	88	P
PHE 002	Physical Education 2	3	1.5	2	3	66	P
SPA 001	Spanish Language 1	15	7.5	2	3	75	P
SPA 002	Spanish Stage 2	15	7.5	2	3	76	P
Credits Obtained		150					

2021-2022 - Xi'an Jiaotong-Liverpool University (China) - Year 1

Module Code	Title	Credits	ECTS	Semester	FHEQ Level	Grade	Result
ACC 103	Introduction to Financial Accounting	15	7.5	1	4	84	P
EAP 121	Advanced Skills for Academic Success	15	7.5	1	4	66	P
ECO 109	Principles of Microeconomics	15	7.5	1	4	78	P
MTH 113	Introduction to Probability and Statistics	15	7.5	1	4	74	P
MTH 125	Real Analysis for Financial Mathematics	15	7.5	1	4	79	P
ECO 120	Principles of Macroeconomics	15	7.5	2	4	64	P
FIN 104	Introduction to Finance	15	7.5	2	4	88	P
MTH 106	Introduction to the Methods of Applied Mathematics	15	7.5	2	4	80	P
MTH 116	Foundations of Financial Computing	15	7.5	2	4	99	P
SPA 003	Spanish Stage 3	15	7.5	2	4	86	P
Credits Obtained		150					

2022-2023 - The University of Liverpool (UK) - Year 2

Module Code	Title	Credits	ECTS	Semester	FHEQ Level	Grade	Result
ACFI 213	Corporate Financial Management for Non-Specialist Students	15	7.5	1	5	72	P
ACFI 290	Financial Reporting and Finance (Non-Specialist)	15	7.5	1	5	62	P
MATH 253	Statistics and Probability I	15	7.5	1	5	74	P
MATH 268	Operational Research: Probabilistic Models	15	7.5	1	5	83	P
MATH 242	Metric Spaces and Calculus	15	7.5	2	5	68	P
MATH 254	Statistics and Probability II	15	7.5	2	5	63	P

MATH 256	Numerical Methods	15	7.5	2	5	94	P
MATH 262	Financial Mathematics	15	7.5	2	5	84	P
Credits Obtained		120					

2023-2024 - The University of Liverpool (UK) - Year 3

Module Code	Title	Credits	ECTS	Semester	FHEQ Level	Grade	Result
ACFI 310	Derivative Securities	15	7.5	1	6	68	P
MATH 362	Applied Probability	15	7.5	1	6	72	P
MATH 363	Linear Statistical Models	15	7.5	1	6	78	P
MATH 375	Stochastic Modelling in Insurance and Finance	15	7.5	1	6	69	P
MATH 366	Mathematical Risk Theory	15	7.5	2	6	65	P
MATH 368	Stochastic Theory and Methods in Data Science	15	7.5	2	6	70	P
MATH 374	Statistical Methods in Insurance and Finance	15	7.5	2	6	69	P
MATH 377	Financial and Actuarial Modelling in R	15	7.5	2	6	65	P
Credits Obtained		120					

* - Indicates a mark obtained at a second or subsequent sitting

E - Indicates Extenuating Circumstances

4.4 Module grading scheme and, if available, grade distribution guidance:

Grade (100 point scale)

70 to 100

First Class

60 to 69

Upper second class (2.1)

50 to 59

Lower second class (2.2)

40 to 49

3rd Class

35 to 39

Narrow Fail (but compensation may be allowed in accordance with University's rules)

Less than 40

Fail

4.5 Overall classification of the qualification (in original language):

Class I

Information about the degree classification methodology used at the University of Liverpool is available at <https://www.liverpool.ac.uk/aqsd/academic-codes-of-practice/code-of-practice-on-assessment/>

INFORMATION ON THE FUNCTION OF THE QUALIFICATION**5.1 Access to further study:**

Attainment of an undergraduate degree may entitle access to postgraduate study (Bologna FQ-EHEA 2nd or 3rd cycle/level 7 or 8 qualifications or equivalent) and/or professional career opportunities.

5.2 Professional status (if applicable):

Accredited by the Institute and Faculty of Actuaries for the purpose of exemption from some professional examinations.

Accredited by the Institute of Mathematics and its Applications (IMA) for the purpose of meeting in part the educational requirement for chartered status.

ADDITIONAL INFORMATION

6.1 This section provides details of extra-curricular student awards and activities that represent achievement, and have been verified by the University of Liverpool. Details of prizes gained whilst at the University are also listed here. Please note that

the number of extra-curricular activities which the University and the Liverpool Guild of Students are currently able to verify is limited. Students may therefore have undertaken additional activities which have contributed significantly to their personal and professional development. They will be encouraged to record these in other documentation.

- 6.2 Further information sources:** Further information concerning the University of Liverpool may be obtained from the University's website (www.liverpool.ac.uk). A description of the UK higher education system may be obtained from the UCAS website (<https://www.ucas.com/ucas/undergraduate/getting-started/what-higher-education>).

CERTIFICATION OF THE HEAR

- 7.1 Date:** 11th July 2024
- 7.2 Award Date:** 15th July 2024
- 7.3 Signature:** 
- 7.4 Capacity:** Director of Student Experience & Enhancement
- 7.5 Official Seal:**



INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

- 8.1** You will find further context on the awards we provide and the information on the national higher education system at the following webpage: <https://www.liverpool.ac.uk/graduation/official-documentation/sharing-your-hear/hear-content/>