

# Higher Education Achievement Report (Diploma Supplement)

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.

Only HEARs accessed via [www.gradintel.com](http://www.gradintel.com) or that have been printed, stamped and sealed by Queen Mary University of London can be considered valid and verified.

## 1. Information identifying the holder of the qualification

- 1.1

Family name:

Xu
- 1.2

Given names:

Bolun
- 1.3

Date of birth (day/month/year):

6 April 2000
- 1.4

Student identification number:

220234168
- HESA identification number:

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.

## 2. Information identifying the qualification

- 2.1

Name of qualification and (if applicable) title conferred:

Master of Science  
The power to award degrees is regulated by law in the UK.
- 2.2

Main field(s) of study for the qualification:

Big Data Science
- 2.3

Name and status of awarding institution:

Queen Mary University of London
- 2.4

Name and status of institution (if different from 2.3) administering studies:

As awarding institution
- 2.5

Language(s) of instruction and examination:

English

3. Information on the level of the qualification

- 3.1

HESA level of qualification:

Master of Science
- 3.2

Official length of programme:

12 months
- 3.3

Access requirement(s):

Description not available

4. Information on the contents and results gained

4.1 Mode of study:

| Year    | Mode of Study  |
|---------|--|
| 2023/24 | Full-time (minimum 24 weeks study per year)                              |
| 2024/25 | Full-time (minimum 24 weeks study per year) - Course end date: 17-SEP-24 |

4.2 Programme requirements:

Details of programme requirements and specifications can be found by following the link below:  
<http://www.arcs.qmul.ac.uk/quality-assurance/programme-specifications>

Each 15 credit module is equal to 150 notional study hours. These 150 hours include all lectures and tutorial time plus personal study time such as preparatory reading, essay writing and revision work.

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

|                      |                   |
|----------------------|-------------------|
| Programme start date | 18 September 2023 |
| Programme end date   | 17 September 2024 |

| Module Code                | Title                             | Sel | Level | Mark | Grade | Attempt | Credits | ECTS Credits | Result |
|----------------------------|-----------------------------------|-----|-------|------|-------|---------|---------|--------------|--------|
| ECS7020P                   | Principles of Machine Learning    |     | 7     | 81.8 | D     | 1       | 15      | 7.5          | Passed |
| ECS7026P                   | Neural Networks and Deep Learning |     | 7     | 65.5 | M     | 1       | 15      | 7.5          | Passed |
| ECS7028P                   | Data Semantics                    |     | 7     | 70.3 | D     | 1       | 15      | 7.5          | Passed |
| ECS750P                    | Project                           |     | 7     | 86.0 | D     | 1       | 60      | 30.0         | Passed |
| ECS764P                    | Applied Statistics                |     | 7     | 54.9 | P     | 1       | 15      | 7.5          | Passed |
| ECS765P                    | Big Data Processing               |     | 7     | 94.2 | D     | 1       | 15      | 7.5          | Passed |
| ECS766P                    | Data Mining                       |     | 7     | 66.6 | M     | 1       | 15      | 7.5          | Passed |
| ECS781P                    | Cloud Computing                   |     | 7     | 72.6 | D     | 1       | 15      | 7.5          | Passed |
| ECS796P                    | Distributed Systems               |     | 7     | 61.8 | M     | 1       | 15      | 7.5          | Passed |
| TOTAL YEAR 2023/24 CREDITS |                                   |     |       |      |       |         | 180     | 90.0         |        |
| TOTAL CREDITS AWARDED      |                                   |     |       |      |       |         | 180     | 90.0         |        |

4.4 Grading scheme and, if available, grade distribution guidance:

'Sel' refers to 'selection status'. A selection status of 'ST' indicates a module was followed on a study only basis and no results are expected. A selection status of 'TR' indicates a transcriptable module and the marks recorded are not used in the calculation of the classification awarded.

A detailed explanation of the grading scheme used can be found at  
<http://www.arcs.qmul.ac.uk/students/graduation/understanding-your-transcript>

Full details of the classification schemes for all undergraduate / postgraduate programmes, including the weighting applied to modules at each level of study, can be found in the academic regulations for the year of entry for the student at <http://www.arcs.qmul.ac.uk/policy/index.html>

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

## 5. Information on the function of the qualification

**5.1 Access to further study:**

This qualification complies with the UK framework for Higher Education Qualifications (FHEQ) and allows you to study at the next level upon successful completion. Please see section 8 for further details.

**5.2 Professional status (if applicable):**

Not applicable

## 6. Additional information

**6.1 Additional Achievements:**

This section provides details of extracurricular student awards and activities representing achievement that have been verified by Queen Mary University of London. Details of prizes gained whilst at the university are also listed here. For details of verifiable extracurricular activities, please see our website: <http://www.arcs.qmul.ac.uk/students/sec/gradintelligence-account-/extracurricular-activities>

**6.2 Further information sources:**

Further information can be found at [www.qmul.ac.uk](http://www.qmul.ac.uk)

## 7. Certification of the HEAR

**7.1 Date of award:**

21 October 2024

**7.2 Signature:**



Trudy Mason

**7.3 Capacity:**

Director of Registry Services

**7.4 Official stamp or seal:**



## 8. Information on the National Higher Education System

### Description of Higher Education in England, Wales and Northern Ireland

In the United Kingdom (UK), Higher Education (HE) is a devolved matter, with political oversight provided by the UK Government and Parliament (England), the Scottish Government and Parliament (Scotland), the Welsh Government and Parliament (Wales), and the Northern Ireland Executive and Assembly (Northern Ireland). HE provision is offered by many different types of institution that are active in teaching, research, and scholarship. The term includes all publicly funded universities and other HE institutions, alternative HE providers that offer HE courses but do not receive annual public funding, and further education colleges in England and Wales, which offer HE level courses.

#### Degree Awarding Powers and University Title

The power to award degrees is regulated by law in the UK. Those organisations granted the power to award HE degrees are referred to as 'Recognised Bodies', and a full list of these is published by the UK Government. It is an offence for an organisation to purport to award, or to offer a UK degree, unless it is authorised to do so. Degree-awarding bodies often work with other providers that do not have degree awarding powers to deliver provision which leads to a qualification of the degree-awarding body. The Listed Bodies Order confirms the providers that do not have the powers to award their own degrees, but offer programmes that lead to a degree of a Recognised Body (see <https://www.gov.uk/check-a-university-is-officially-recognised>).

#### Qualifications

Previously there were two parallel frameworks for HE qualifications of UK degree-awarding bodies, one that applied to Scotland and one that operates in the rest of the UK:

- The Framework for Higher Education Qualifications of Degree-Awarding Bodies in England, Wales and Northern Ireland (FHEQ)
- The Framework for Qualifications of Higher Education Institutions in Scotland (FQHEIS).

These frameworks were the principal national reference points for academic standards in UK HE. However, providers in England, who are no longer required to use the FHEQ, now have to meet the Office for Students' conditions of registration and align their qualifications with the OfS' [sector recognised standards](#). These sector-recognised standards do not formally reference the QF-EHEA or the other frameworks in use across the UK. Consequently two tables, provided by the QAA on behalf of the UK and Ireland Qualifications Frameworks and Policy Group, are now provided for use within the HEAR to support providers to align UK qualifications with the QF-EHEA.

#### Quality Assurance

Academic standards are established and maintained by HE institutions themselves, using an extensive and sophisticated range of shared quality assurance approaches and structures. Standards and quality in institutions are underpinned by the use of external examiners, standards agreed and recognised by the sector, by the activities of the Quality Assurance Agency for Higher Education (QAA) in Scotland, Wales and Northern Ireland, by the Office for Students in England and in professional areas by relevant professional, statutory and regulatory bodies.

The sector standards are supported by the [Quality Council for UK Higher Education](#), formed from partner organisations, providers and national HE regulators.

A cornerstone of quality arrangements across all four nations is the UK Quality Code for Higher Education. It is a key reference point in the quality approaches for Scotland, Wales and Northern Ireland

In England, providers need to comply with the [Office for Students' Regulatory Framework and Conditions of Registration](#). Engaging with the Quality Code is voluntary for providers based in England, except for those providers reviewed against the Quality Code using the Educational Oversight Review (EOR) method

#### England

The Higher Education and Research Act 2017 (HERA) drives the regulatory and legal requirements of HE in England. The legislation can be found at <http://www.legislation.gov.uk/ukpga/2017/29/contents/enacted>. This Act established the Office for Students (OfS) and gave it responsibility for regulating the English HE sector. Its primary focus is the student interest in its duty as a market regulator. The OfS is responsible for risk-based monitoring of indicators relating to the baseline quality and standards of provision. It maintains the Register of HE providers in England, and implemented a regulatory framework in February 2018: <https://www.officeforstudents.org.uk/publications/securing-student-success-regulatory-framework-for-higher-education-in-england/>.

Degree-awarding bodies in England must be registered with the OfS and meet all ongoing conditions of registration in order to retain degree-awarding powers. The OfS has express powers to revoke degree-awarding powers for HE providers in England if conditions of registration are not maintained.

#### Northern Ireland

Funding for HE is directly provided by the Department for the Economy in Northern Ireland.

QAA has been commissioned by the Department for the Economy (DfE) to develop an enhancement-led quality review method for higher education in Northern Ireland.

The new review method will provide confidence to DfE, students, staff and the public in the quality of higher education provision in Northern Ireland, whilst supporting higher education institutions to enhance the quality of the student academic experience. The review method is being developed in collaboration with the higher education sector in Northern Ireland and QAA expects to produce a proposal paper on the new review method for DfE by September 2024.

#### Scotland

The Scottish Funding Council (SFC), a non-departmental public body, is the strategic body responsible for funding Scotland's teaching and learning provision and research. Scotland takes an enhancement-led approach to quality assurance with its Tertiary Quality Enhancement Framework (TQEF), which focuses on the whole student experience and its enhancement rather than on quality assurance alone. This is built on partnership and collective engagement between a number of bodies including the Scottish Funding Council, QAA Scotland, the National Union of Students (NUS), and Universities Scotland. The TQEF requires both rigorous institutional activity, using external reference points, and external review on a seven-year cycle, known as Tertiary Quality Enhancement Review (TQER.) Institutions must demonstrate how they meet the expectations of the Quality Code, which is confirmed as a formal part of TQER.

#### Wales

The Higher Education Funding Council for Wales (HEFCW) is the Welsh Government sponsored body responsible for regulating the Welsh HE sector. From 1 August 2024, HEFCW will be replaced by a new Welsh Government sponsored body, the Commission for Tertiary Education and Research which will be responsible for overseeing post-16 education and research in Wales. The QAA undertakes Quality Enhancement Reviews of regulated HE providers every six years under the Wales Quality Assessment Framework. For more information, see: <https://www.qaa.ac.uk/reviewing-higher-education/types-of-review/quality-enhancement-review>.

The Commission will be working to the same 6-year cycle – arrangements with QAA to continue as they are for at least the next couple of years up to the point when CTER gain the powers to consider the option of appointing a designated quality body.

#### Credit Systems

A number of integrated credit frameworks operate within the UK: the Scottish Credit and Qualifications Framework ([SCQF](#)) and the Credit and Qualifications Framework for Wales ([COFW](#)), both of which are underpinned by the same principles, such as the definition of one credit as 10 notional hours of learning.

The [FHEQ](#) is a qualifications framework, based on the outcomes represented by the main qualification titles; it is not an integrated credit and qualifications framework, nor does its use depend on the use of credit. Not all degree-awarding bodies in England use credit in the same way, therefore. Some may not use credit at all, and some may use the European Credit Transfer and Accumulation System (ECTS) to support student mobility within Europe and award ECTS points rather than UK credit. Nevertheless, credit is widely used by most degree-awarding bodies in the UK. An advisory [Higher Education credit framework for England](#) has been in use since 2008. The credit framework is written for HE providers in England as a description of the typical practice developed across the sector and to provide a reference point for those wishing to introduce or consolidate their use of credit. The SCQF and the CQFW are integrated credit and qualifications frameworks, which means that they specify minimum credit volumes and levels for qualifications. The SCQF embraces all educational sectors, with the FQHEIS as a constituent part; and the CQFW is a meta-framework for credit and qualifications in Wales, embracing all post-14 education and training, and treating the FHEQ as a constituent part. The credit arrangements in the FQHEIS/SCQF apply to all degree-awarding bodies in Scotland. All degree-awarding bodies in Wales have agreed to use the credit arrangements stipulated in the CQFW, in relation to the FHEQ.

### Admission

UK HE providers determine their own admissions policies and the minimum entry requirements for each programme. For Bachelor's degrees, the minimum entry requirement is usually two or three General Certificate of Education Advanced-level (GCE A level) passes, as well as a minimum number of General Certificate of Secondary Education (GCSE) passes at grade C or above. These remain the most common form of entry qualification held by young entrants to HE. Other appropriate qualifications may also provide entry, e.g. the International Baccalaureate, the Welsh Baccalaureate, Scottish Highers, Advanced Highers, or qualifications at the same levels of the Scottish Credit and Qualifications Framework and Edexcel BTEC National Qualifications. The Universities and Colleges Admissions System (UCAS) tariff establishes comparability between different types of qualification across the UK using a points system.

The Access to Higher Education Diploma provides another route for mature entrants. Most institutions also welcome applications from mature candidates who have had appropriate experience but may lack formal qualifications, offering credit for prior study and informal learning acquired through work or other experiences (Recognition of Prior Learning (RPL)).



## Comparing Qualifications in the UK

The table compares qualifications across the UK, providing examples of major qualifications at each level. For more details, refer to the website given at the head of each column.

| Framework for higher education qualifications in England, Wales and Northern Ireland<br>www.qaa.ac.uk |  | Regulated Qualifications Framework for England and Northern Ireland<br>www.ofqual.gov.uk<br>www.ccea.org.uk |   | Credit and Qualifications Framework for Wales<br>www.cqfw.net |   | Scottish Credit and Qualifications Framework<br>www.scqf.org.uk |  |
|---|--|---|---|---|---|---|--|
| LEVEL   |  | LEVEL   |   | LEVEL   |   | LEVEL   |  |
| 8   | Doctoral Degree  | 8   | Vocational, Technical and Professional Qualifications   | 8   | Doctoral Degree, Vocational Qualifications  | 12  | Doctoral Degree, Professional Apprenticeship, Professional Development Award (PDA), Award  |
| 7   | Master's Degree, Integrated Master's Degree, Postgraduate Diploma, Postgraduate Certificate in Education (PGCE), Postgraduate Certificate        | 7   | Vocational, Technical and Professional Qualifications   | 7   | Master's Degree, Vocational Qualifications, Postgraduate Certificate in Education (PGCE)                            | 11  | Master's Degree, Integrated Master's Degree, Postgraduate Diploma, Postgraduate Certificate, Professional Apprenticeship, Graduate Apprenticeship, PDA, SVQ, Award |
| 6   | Bachelor's Degree with Honours, Bachelor's Degree, Professional Graduate Certificate in Education (PGCE), Graduate Diploma, Graduate Certificate | 6   | Vocational, Technical and Professional Qualifications   | 6   | Honours Degree, Vocational Qualifications, Professional Certificate in Education                                    | 10  | Bachelor's Degree with Honours, Graduate Diploma, Graduate Certificate, Professional Apprenticeship, Graduate Apprenticeship, PDA, SVQ, Award                      |
| 5   | Foundation Degree, Diploma of Higher Education (DipHE), Higher National Diploma (HND)  | 5   | Vocational, Technical and Professional Qualifications, Higher National Diploma (HND)  | 5   | Foundation Degree, Vocational Qualifications, Higher National Diploma (HND)   | 9   | Bachelor's/Ordinary Degree, Graduate Diploma, Graduate Certificate, Graduate Apprenticeship, Technical Apprenticeship, PDA, SVQ, Award                             |
| 4   | Higher National Certificate (HNC), Certificate of Higher Education (CertHE)  | 4   | Vocational, Technical and Professional Qualifications, Higher National Certificate (HNC)  | 4   | Higher National Certificate (HNC), Certificate of Higher Education (CertHE), Vocational Qualifications              | 8   | Higher National Diploma (HND), Diploma of Higher Education (DipHE), Technical Apprenticeship, Higher Apprenticeship, PDA, SVQ, Award                               |
| 3   | Access to HE Diploma*  | 3   | Vocational, Technical and Professional Qualifications, GCE AS and A Level   | 3   | Welsh Baccalaureate Advanced, Vocational Qualifications, GCE, AS and A Level, Access to HE                          | 7   | Higher National Certificate (HNC), Certificate of Higher Education (CertHE), Modern Apprenticeship, PDA, SVQ, Scottish Baccalaureate, Advanced Higher, Award       |
| *The Access to HE Diploma is regulated by QAA but is not part of the FHEQ                             |  | 2   | Vocational & Technical Qualifications, GCSE at grade A*-C and grade 9-4, Functional Skills (England), Essential Skills Qualification (NI) | 2   | Welsh Baccalaureate National, Vocational Qualifications, Essential Skills Wales Qualifications, GCSE at grade A*-C  | 6   | Higher, Modern Apprenticeship, Foundation Apprenticeship, National Progression Award (NPA), National Certificate, PDA, SVQ, Award                                  |
|   |  | 1   | Vocational & Technical Qualifications, GCSE at grade D-G and grade 3-1, Functional Skills (England), Essential Skills Qualifications (NI) | 1   | Welsh Baccalaureate Foundation, Vocational Qualifications, Essential Skills Wales Qualifications, GCSE at grade D-G | 5   | National 5, Modern Apprenticeship, SVQ, NPA, National Certificate, Award   |
|   |  | Entry Level   | Entry Level Certificate (sub levels 1-3), Functional Skills (England), Essential Skills Qualifications (NI)                               | Entry Level   | Entry Level Qualifications, Essential Skills Qualifications   | 4   | National 4, SVQ, NPA, National Certificate Award   |
|   |  |   |   |   |   | 3   | National 3, NPA, National Certificate, Award   |
|   |  |   |   |   |   | 2   | National 2, NPA, National Certificate, Award   |
|   |  |   |   |   |   | 1   | National 1, Award  |

Please note that the Credit and Qualifications Framework for Wales incorporates the Framework for Higher Education Qualifications of Degree-Awarding Bodies in England, Wales and Northern Ireland (FHEQ); the Scottish Credit and Qualifications Framework incorporates the Framework for Higher Education Qualifications of Higher Education Institutions in Scotland (FQHEIS).

Information correct at time of printing – September 2020.