

Further Maths A/AS-level  
&  
School of Mathematics at the University of Leeds

Dr Richard Elwes

University of Leeds

February, 2020

# Our courses

- Mathematics (BSc/ MMath)
- Mathematics and Statistics (BSc/ MMath)
- Financial Mathematics
- Actuarial Mathematics
- Parented Joint Honours (Economics, Music)
- Non-Parented Joint Honours (Chemistry, Natural Sciences, Philosophy, Computer Science)

*Plus variants with Year Studying Abroad/ Year in Industry.*

# Our Single-Honours Offers

- Headline offer: **AAA** (or A\*AB)
- With Further Maths A-level: **AAB** (or A\*BB)
- With Further Maths AS-level: **AABa** (or A\*BBa)

always with at least A in Maths A-level.

# Further Maths take-up at Leeds: Sex

## Leeds Maths-Parented Degrees (2019 Entry)

	%	Total	F	M
A2 F. Maths	54%	213	78	135
AS F. Maths	6%	24	14	10
A Maths only	24%	95	33	62
No Maths A-level	15%	60	29	31

So  $\approx 60\%$  of our students have at least AS Further maths (and  $\approx 70\%$  of A-level students).

# Maths take-up at Leeds vs Participation

Leeds maths-parented degrees				National entrants			
	F	M	% F	2019	F	M	% F
A2 F. Maths	78	135	37%	Maths	35605	56290	39%
AS F. Maths	14	10	58%	FM	4147	10380	29%
A Maths only	33	62	35%	2018			
No Maths A-level	29	31	48%	Maths	38357	59271	39%
Total	154	238	39%	FM	4580	11577	28%

In 2014 Mathematics became the most popular A level (overtaking English), and has remained so.

# Facilitating Subjects (HEFCE Report)

In 2011, the Russell group defined:

- **Facilitating subjects** are those A-level subjects frequently required for entry to Russell Group universities.
- This terminology is now standard, e.g. in HEFCE reports, and Department of Education Publications (“A Level and other level 3 results in England”).

# Facilitating Subjects

The facilitating subjects are:

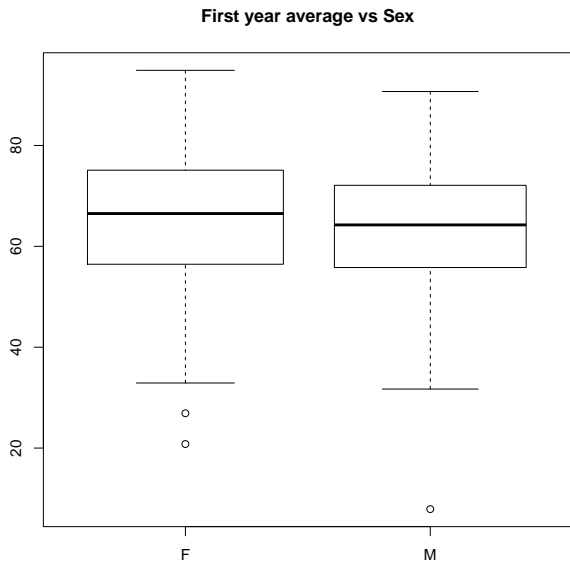
Mathematics, **Further Mathematics**, English literature, Physics, Biology, Chemistry, Geography, History, Classical and Modern languages.

Maths is the most frequently studied facilitating subject. However

*“92 per cent of those who held Further mathematics as one of their highest three A-level grades went on to higher education in a UK HEI or English FEC. This is the highest young participation rate observed among the facilitating subjects...”*

HEFCE, 2015,  
*Young participation in higher education  
(A-levels and similar qualifications)*

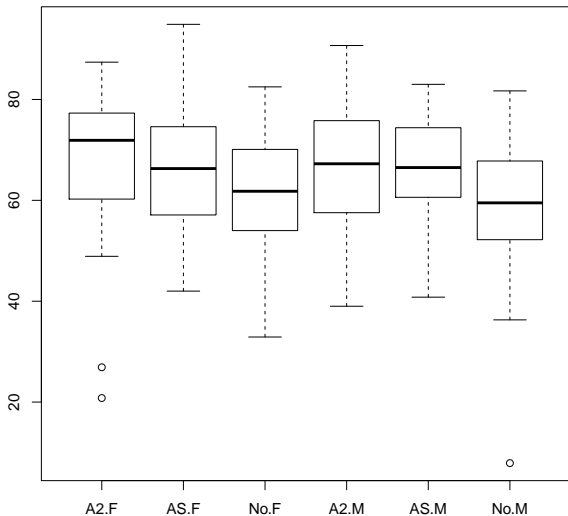
# First year results: Sex





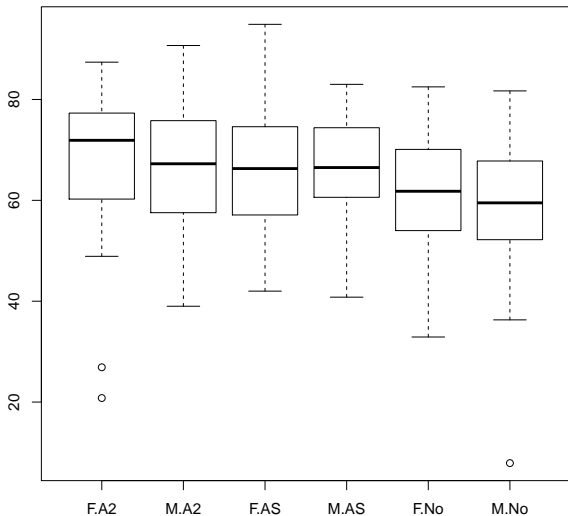
# First year results: Sex and Grade I

First year average and FM (AS) gender



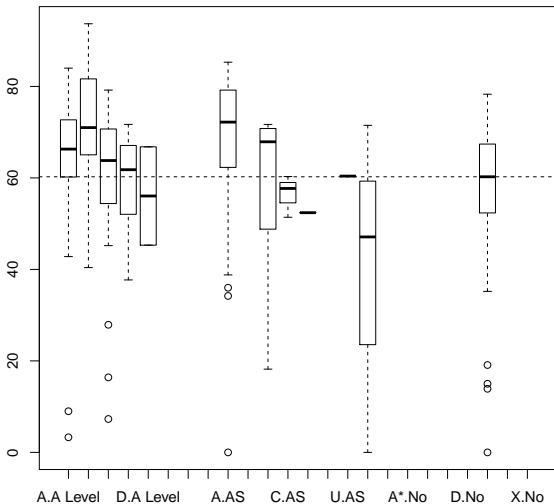
# First year results: Sex and Grade II

First year average and FM (AS) gender



# First year results: A-level Grades

Further Maths grades & first year



# Third & Fourth year results

