

Fixed effects logistic regression output

Association between TEF importance and probability of making two or more applications to gold award providers

Table 1: Number of observations

Description	Number
Number of Observations Used	4,982

Table 2: Response profile

Made two or more applications to gold award providers	Number
Yes	3,903
No	1,079

Table 3: Association of predicted probabilities and observed responses

Statistic	Value	Statistic	Value
Percent Concordant	75.1	Somers' D	0.502
Percent Discordant	24.9	Gamma	0.502
Percent Tied	0.0	Tau-a	0.170
Pairs	4211337	c	0.751

Table 4: R-square values

Statistic	Value
Cox-Snell R-square	0.15
Nagelkerke adjusted	0.22

Table 5: Hosmer and Lemeshow goodness of fit test

Chi-Square	DF	Pr > Chi-Square	Number of Groups
20.67	8	0.0081	10

Table 6: Type 3 analysis of effects

Parameter	DF	Wald Chi-square	Pr > Chi-Square
Sex	1	0.0613	0.8045
Ethnic group	5	13.0228	0.0232
English region of domicile	8	127.3698	<.0001
POLAR4	4	5.2094	0.2665
School type attended	7	9.2182	0.2374
Number of live at home choices	5	29.6630	<.0001
Mean peak drive time between applicants home postcode and the providers to which they applied	6	35.3617	<.0001
Number of weeks before the January application deadline the applications were submitted	13	33.4651	0.0015
Best 8 achieved GCSE points score	7	7.8417	0.3468
Best three predicted A level point score	12	37.6104	0.0002
Applied to a course in the JACS3 Subject Group A - Medicine and Dentistry course	1	11.4963	0.0007
Applied to a course in the JACS3 Subject Group B - Subjects Allied to Medicine	1	4.3204	0.0377
Applied to a course in the JACS3 Subject Group C - Biological Sciences	1	0.0324	0.8570
Applied to a course in the JACS3 Subject Group D - Veterinary Sciences and Agriculture	1	0.0012	0.9723
Applied to a course in the JACS3 Subject Group F - Physical Sciences	1	0.1467	0.7017
Applied to a course in the JACS3 Subject Group G - Mathematical Sciences	1	1.9873	0.1586
Applied to a course in the JACS3 Subject Group H - Engineering	1	6.7390	0.0094
Applied to a course in the JACS3 Subject Group I - Computer Sciences	1	2.3345	0.1265
Applied to a course in the JACS3 Subject Group J - Technologies	1	0.3409	0.5593
Applied to a course in the JACS3 Subject Group K - Architecture, Building and Planning	1	6.9803	0.0082
Applied to a course in the JACS3 Subject Group L - Social Studies	1	0.7669	0.3812
Applied to a course in the JACS3 Subject Group M - Law	1	0.2751	0.6000
Applied to a course in the JACS3 Subject Group N - Business and Administrative Studies	1	3.0819	0.0792
Applied to a course in the JACS3 Subject Group P - Mass Communication and Documentation	1	6.6232	0.0101
Applied to a course in the JACS3 Subject Group Q - Linguistics, Classics and related	1	2.1782	0.1400
Applied to a course in the JACS3 Subject Group R - European Languages	1	0.1441	0.7042
Applied to a course in the JACS3 Subject Group T - Non-European Languages	1	0.3207	0.5712
Applied to a course in the JACS3 Subject Group V - Historical and Philosophical Studies	1	2.4804	0.1153
Applied to a course in the JACS3 Subject Group W - Creative Arts and Design	1	0.3317	0.5646
Applied to a course in the JACS3 Subject Group X - Education	1	42.1800	<.0001
Importance given to emails from universities when deciding where to apply	2	4.6423	0.0982
Importance given to social media contact from universities when deciding where to apply	2	0.7467	0.6884
Importance given to information sent in the post from universities when deciding where to apply	2	2.5851	0.2746
Importance given to university open days when deciding where to apply	2	4.5006	0.1054
Importance given to UCAS exhibitions or other UCAS events when deciding where to apply	2	5.5228	0.0632
Importance given to online reviews given by other students when deciding where to apply	2	0.2118	0.8995

Output from logistic regression models described in 'The Teaching Excellence and Student Outcomes Framework and demand to full time undergraduate higher education'. Published 21 June 2018. www.ucas.com

Parameter	DF	Wald Chi-square	Pr > Chi-Square
Applicant has used online league tables	1	5.3480	0.0207
Applicant has used the Complete University Guide website	1	0.0424	0.8368
Applicant has used the Student Room website	1	9.3234	0.0023
Applicant has used the Unistats website	1	1.7028	0.1919
Applicant has used the What Uni? website	1	0.3074	0.5793
Applicant has used the Which? University website	1	0.3124	0.5762
Importance given to university league tables when deciding where to apply	2	2.0806	0.3533
Importance given to likely earning potential of university's graduates when deciding where to apply	2	7.6256	0.0221
Importance given to feeling like you fit in with other students at the university when deciding where to apply	2	2.2373	0.3267
Importance given to social life or activities available through attending the university when deciding where to apply	2	0.8238	0.6624
Importance given to the range of modules covered within the course when deciding where to apply	2	4.4834	0.1063
Importance given to the quality of university accommodation when deciding where to apply	2	4.5885	0.1008
Importance given to the cost of living at the university when deciding where to apply	2	13.9581	0.0009
Importance given to the male to female ratio when deciding where to apply	2	3.3013	0.1919
University open days attended prior to applying	3	3.7201	0.2933
TEF awards where important, or extremely important when deciding where to apply	1	53.1317	<.0001

Table 7: Parameter estimates

Parameter - reference group in parentheses	Value	Log odds ratio	Standard Error	Wald Chi-Square	Pr > Chi-Square	Odds ratio
Intercept		1.77	2.09	0.72	0.3975	5.86
Sex (Female)	Male	0.02	0.08	0.06	0.8045	1.02
Ethnic group (White)	Black	0.38	0.19	3.80	0.0513	1.46
Ethnic group (White)	Asian	-0.02	0.12	0.02	0.8785	0.98
Ethnic group (White)	Mixed	-0.02	0.17	0.02	0.8834	0.98
Ethnic group (White)	Other	-0.13	0.29	0.20	0.6546	0.88
Ethnic group (White)	Unknown or Prefer Not To Say	-0.99	0.35	8.15	0.0043	0.37
English region of domicile (London)	North East	0.01	0.23	0.00	0.9824	1.01
English region of domicile (London)	North West	0.15	0.15	0.97	0.3239	1.16
English region of domicile (London)	Yorkshire and the Humber	0.39	0.17	5.25	0.0219	1.48
English region of domicile (London)	East Midlands	1.05	0.16	42.04	<.0001	2.87
English region of domicile (London)	West Midlands	1.17	0.16	52.86	<.0001	3.22
English region of domicile (London)	East of England	0.72	0.15	22.04	<.0001	2.06
English region of domicile (London)	South East	0.19	0.13	2.10	0.1469	1.21
English region of domicile (London)	South West	-0.21	0.16	1.75	0.1858	0.81
POLAR4 (Quintile 1)	2	0.02	0.15	0.03	0.8701	1.03
POLAR4 (Quintile 1)	3	-0.11	0.15	0.52	0.4716	0.90
POLAR4 (Quintile 1)	4	-0.23	0.14	2.70	0.1005	0.79
POLAR4 (Quintile 1)	5	-0.14	0.14	1.07	0.3004	0.87
School type attended (Independent)	Academy	0.09	0.17	0.28	0.5981	1.09
School type attended (Independent)	Applied Directly	-0.98	1.38	0.50	0.4781	0.38
School type attended (Independent)	Further education	0.01	0.24	0.00	0.9688	1.01
School type attended (Independent)	Grammar	0.08	0.29	0.08	0.7832	1.08
School type attended (Independent)	Other	0.55	0.58	0.88	0.3480	1.73
School type attended (Independent)	Sixth form college	-0.15	0.18	0.75	0.3853	0.86
School type attended (Independent)	State	0.16	0.18	0.80	0.3717	1.17
Number of live at home choices (0)	0	0.95	0.22	19.24	<.0001	2.58
Number of live at home choices (0)	1	0.98	0.24	16.53	<.0001	2.67
Number of live at home choices (0)	2	0.71	0.26	7.39	0.0065	2.03
Number of live at home choices (0)	3	0.45	0.29	2.46	0.1167	1.57
Number of live at home choices (0)	4	-0.13	0.33	0.16	0.6871	0.88
Mean peak drive time between applicants home postcode and the providers to which they applied (Within 30 minutes)	30 to < 60 minutes	0.69	0.14	24.46	<.0001	1.99

Parameter - reference group in parentheses	Value	Log odds ratio	Standard Error	Wald Chi-Square	Pr > Chi-Square	Odds ratio
Mean peak drive time between applicants home postcode and the providers to which they applied (Within 30 minutes)	60 to < 90 minutes	0.74	0.14	26.46	<.0001	2.10
Mean peak drive time between applicants home postcode and the providers to which they applied (Within 30 minutes)	90 to < 120 minutes	0.53	0.14	13.73	0.0002	1.70
Mean peak drive time between applicants home postcode and the providers to which they applied (Within 30 minutes)	120 to < 150 minutes	0.42	0.14	8.53	0.0035	1.53
Mean peak drive time between applicants home postcode and the providers to which they applied (Within 30 minutes)	150 to < 180 minutes	0.64	0.17	14.64	0.0001	1.91
Mean peak drive time between applicants home postcode and the providers to which they applied (Within 30 minutes)	More than 180 minutes	0.55	0.14	14.96	0.0001	1.73
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	1-2 weeks before the deadline	0.06	0.25	0.06	0.8042	1.06
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	2-3 weeks before the deadline	0.07	0.62	0.01	0.9127	1.07
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	3-4 weeks before the deadline	-0.37	0.22	2.81	0.0938	0.69
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	4-5 weeks before the deadline	-0.11	0.18	0.34	0.5584	0.90
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	5-6 weeks before the deadline	-0.00	0.18	0.00	0.9986	1.00
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	6-7 weeks before the deadline	0.02	0.18	0.01	0.9301	1.02
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	7-8 weeks before the deadline	0.13	0.18	0.56	0.4547	1.14
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	8-9 weeks before the deadline	-0.08	0.19	0.19	0.6617	0.92
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	9-9 weeks before the deadline	0.11	0.21	0.31	0.5786	1.12
Number of weeks before the January application deadline the applications where submitted (Applied within 1 week of deadline)	10-11 weeks before the deadline	0.21	0.21	0.98	0.3217	1.23

Parameter - reference group in parentheses	Value	Log odds ratio	Standard Error	Wald Chi-Square	Pr > Chi-Square	Odds ratio
Number of weeks before the January application deadline the applications were submitted (Applied within 1 week of deadline)	11-12 weeks before the deadline	-0.43	0.30	2.15	0.1423	0.65
Number of weeks before the January application deadline the applications were submitted (Applied within 1 week of deadline)	12-13 weeks before the deadline	-0.19	0.22	0.77	0.3795	0.82
Number of weeks before the January application deadline the applications were submitted (Applied within 1 week of deadline)	13 weeks or more before the deadline	0.61	0.20	9.07	0.0026	1.85
Best 8 achieved GCSE points score (<8 points - fewer than 8 GCSES at grade G)	8-15 points (8 GCSEs at grade G to <8 GCSEs at grade F)	-0.61	0.47	1.68	0.1954	0.54
Best 8 achieved GCSE points score (<8 points - fewer than 8 GCSES at grade G)	16-23 points (8 GCSEs at grade F to <8 GCSEs at grade E)	-0.24	0.42	0.32	0.5729	0.79
Best 8 achieved GCSE points score (<8 points - fewer than 8 GCSES at grade G)	24-31 points (8 GCSEs at grade E to <8 GCSEs at grade D)	-0.33	0.42	0.60	0.4397	0.72
Best 8 achieved GCSE points score (<8 points - fewer than 8 GCSES at grade G)	32-39 points (8 GCSEs at grade D to <8 GCSEs at grade C)	-0.55	0.39	2.01	0.1561	0.58
Best 8 achieved GCSE points score (<8 points - fewer than 8 GCSES at grade G)	40-47 points (8 GCSEs at grade C to <8 GCSEs at grade B)	-0.44	0.35	1.54	0.2139	0.65
Best 8 achieved GCSE points score (<8 points - fewer than 8 GCSES at grade G)	48-55 points (8 GCSEs at grade B to <8 GCSEs at grade A)	-0.39	0.34	1.28	0.2587	0.68
Best 8 achieved GCSE points score (<8 points - fewer than 8 GCSES at grade G)	56-64 points (8 GCSEs at grade A to 8 GCSEs at grade A*)	-0.18	0.35	0.27	0.6010	0.83
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	6 points or lower (equivalent to DDD or lower)	0.07	0.70	0.01	0.9159	1.08
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	7 points (equivalent to CDD)	-1.10	0.48	5.15	0.0233	0.33
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	8 points (equivalent to CCD)	-0.96	0.39	6.21	0.0127	0.38
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	9 points (equivalent to CCC)	-0.76	0.29	6.66	0.0098	0.47
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	10 points (equivalent to BCC)	-0.94	0.26	13.31	0.0003	0.39
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	11 points (equivalent to BBC)	-0.55	0.24	5.37	0.0205	0.58
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	12 points (equivalent to BBB)	-0.40	0.23	3.14	0.0766	0.67

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Parameter - reference group in parentheses	Value	Log odds ratio	Standard Error	Wald Chi-Square	Pr > Chi-Square	Odds ratio
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	13 points (equivalent to ABB)	-0.20	0.22	0.82	0.3661	0.82
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	14 points (equivalent to AAB)	-0.13	0.21	0.37	0.5423	0.88
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	15 points (equivalent to AAA)	-0.05	0.20	0.06	0.8050	0.95
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	16 points (equivalent to A*AA)	0.07	0.21	0.12	0.7317	1.07
Best three predicted A level point score (18 points - equivalent to three A levels at A*)	17 points (equivalent to A*A*A)	-0.04	0.21	0.04	0.8494	0.96
Applied to a course in the JACS3 Subject Group A - Medicine and Dentistry course (No)	Yes	-0.76	0.22	11.50	0.0007	0.47
Applied to a course in the JACS3 Subject Group B - Subjects Allied to Medicine (No)	Yes	-0.28	0.14	4.32	0.0377	0.75
Applied to a course in the JACS3 Subject Group C - Biological Sciences (No)	Yes	-0.02	0.12	0.03	0.8570	0.98
Applied to a course in the JACS3 Subject Group D - Veterinary Sciences and Agriculture (No)	Yes	0.01	0.43	0.00	0.9723	1.02
Applied to a course in the JACS3 Subject Group F - Physical Sciences (No)	Yes	0.05	0.14	0.15	0.7017	1.05
Applied to a course in the JACS3 Subject Group G - Mathematical Sciences (No)	Yes	0.31	0.22	1.99	0.1586	1.36
Applied to a course in the JACS3 Subject Group H - Engineering (No)	Yes	0.43	0.17	6.74	0.0094	1.54
Applied to a course in the JACS3 Subject Group I - Computer Sciences (No)	Yes	-0.29	0.19	2.33	0.1265	0.75
Applied to a course in the JACS3 Subject Group J - Technologies (No)	Yes	-0.32	0.55	0.34	0.5593	0.73
Applied to a course in the JACS3 Subject Group K - Architecture, Building and Planning (No)	Yes	-0.71	0.27	6.98	0.0082	0.49
Applied to a course in the JACS3 Subject Group L - Social Studies (No)	Yes	-0.10	0.12	0.77	0.3812	0.90
Applied to a course in the JACS3 Subject Group M - Law (No)	Yes	-0.08	0.15	0.28	0.6000	0.92
Applied to a course in the JACS3 Subject Group N - Business and Administrative Studies (No)	Yes	-0.26	0.15	3.08	0.0792	0.77
Applied to a course in the JACS3 Subject Group P - Mass Communication and Documentation (No)	Yes	-0.57	0.22	6.62	0.0101	0.56
Applied to a course in the JACS3 Subject Group Q - Linguistics, Classics and related (No)	Yes	-0.26	0.18	2.18	0.1400	0.77
Applied to a course in the JACS3 Subject Group R - European Languages (No)	Yes	0.12	0.31	0.14	0.7042	1.13

Parameter - reference group in parentheses	Value	Log odds ratio	Standard Error	Wald Chi-Square	Pr > Chi-Square	Odds ratio
Applied to a course in the JACS3 Subject Group T - Non-European Languages (No)	Yes	-0.29	0.51	0.32	0.5712	0.75
Applied to a course in the JACS3 Subject Group V - Historical and Philosophical Studies (No)	Yes	-0.27	0.17	2.48	0.1153	0.76
Applied to a course in the JACS3 Subject Group W - Creative Arts and Design (No)	Yes	-0.10	0.17	0.33	0.5646	0.90
Applied to a course in the JACS3 Subject Group X - Education (No)	Yes	-1.49	0.23	42.18	<.0001	0.22
Importance given to emails from universities when deciding where to apply (Not applicable)	Important or extremely important	0.63	0.33	3.59	0.0580	1.87
Importance given to emails from universities when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	0.69	0.33	4.40	0.0360	1.99
Importance given to social media contact from universities when deciding where to apply (Not applicable)	Important or extremely important	0.06	0.20	0.09	0.7643	1.06
Importance given to social media contact from universities when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	0.12	0.18	0.45	0.5027	1.13
Importance given to information sent in the post from universities when deciding where to apply (Not applicable)	Important or extremely important	-0.31	0.20	2.54	0.1113	0.73
Importance given to information sent in the post from universities when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	-0.26	0.19	1.81	0.1781	0.77
Importance given to university open days when deciding where to apply (Not applicable)	Important or extremely important	-0.31	0.35	0.80	0.3710	0.73
Importance given to university open days when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	-0.56	0.35	2.63	0.1048	0.57
Importance given to UCAS exhibitions or other UCAS events when deciding where to apply (Not applicable)	Important or extremely important	-0.09	0.11	0.57	0.4484	0.92
Importance given to UCAS exhibitions or other UCAS events when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	0.11	0.11	0.99	0.3205	1.12
Importance given to online reviews given by other students when deciding where to apply (Not applicable)	Important or extremely important	0.06	0.23	0.07	0.7945	1.06
Importance given to online reviews given by other students when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	0.09	0.23	0.15	0.7012	1.09
Applicant has used online league tables (Not used)	Yes	0.27	0.12	5.35	0.0207	1.31
Applicant has used the Complete University Guide website (Not used)	Yes	-0.02	0.09	0.04	0.8368	0.98

Parameter - reference group in parentheses	Value	Log odds ratio	Standard Error	Wald Chi-Square	Pr > Chi-Square	Odds ratio
Applicant has used the Student Room website (Not used)	Yes	-0.28	0.09	9.32	0.0023	0.76
Applicant has used the Unistats website (Not used)	Yes	-0.10	0.08	1.70	0.1919	0.90
Applicant has used the What Uni? website (Not used)	Yes	0.05	0.09	0.31	0.5793	1.05
Applicant has used the Which? University website (Not used)	Yes	-0.05	0.08	0.31	0.5762	0.95
Importance given to university league tables when deciding where to apply (Not applicable)	Important or extremely important	-0.00	1.18	0.00	0.9990	1.00
Importance given to university league tables when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	-0.13	1.18	0.01	0.9143	0.88
Importance given to likely earning potential of university's graduates when deciding where to apply (Not applicable)	Important or extremely important	-0.54	0.65	0.70	0.4035	0.58
Importance given to likely earning potential of university's graduates when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	-0.75	0.65	1.35	0.2450	0.47
Importance given to feeling like you fit in with other students at the university when deciding where to apply (Not applicable)	Important or extremely important	-0.30	0.70	0.18	0.6693	0.74
Importance given to feeling like you fit in with other students at the university when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	-0.17	0.70	0.06	0.8092	0.84
Importance given to social life or activities available through attending the university when deciding where to apply (Not applicable)	Important or extremely important	1.03	1.22	0.71	0.3998	2.80
Importance given to social life or activities available through attending the university when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	1.00	1.22	0.66	0.4150	2.71
Importance given to the range of modules covered within the course when deciding where to apply (Not applicable)	Important or extremely important	-1.69	1.07	2.51	0.1132	0.18
Importance given to the range of modules covered within the course when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	-1.52	1.07	2.00	0.1575	0.22
Importance given to the quality of university accomodation when deciding where to apply (Not applicable)	Important or extremely important	0.29	0.38	0.60	0.4378	1.34
Importance given to the quality of university accomodation when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	0.09	0.38	0.06	0.8073	1.10
Importance given to the cost of living at the university when deciding where to apply (Not applicable)	Important or extremely important	-1.01	0.44	5.23	0.0222	0.37

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Importance given to the cost of living at the university when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	-0.73	0.44	2.72	0.0993	0.48
Importance given to the male to female ratio when deciding where to apply (Not applicable)	Important or extremely important	-0.10	0.26	0.14	0.7041	0.91
Importance given to the male to female ratio when deciding where to apply (Not applicable)	Slightly, not very, or not at all important	0.08	0.24	0.11	0.7442	1.08
University open days attended prior to applying (Did not attend any open days)	Yes, I visited all universities I applied to	0.32	0.21	2.36	0.1249	1.37
University open days attended prior to applying (Did not attend any open days)	Yes, I visited some universities I applied to	0.20	0.19	1.10	0.2944	1.22
University open days attended prior to applying (Did not attend any open days)	Yes, but not at any universities I applied to	0.01	0.25	0.00	0.9535	1.01
TEF awards where important, or extremely important when deciding where to apply (Slightly, not very, or not at all important)	Important or extremely important	0.58	0.08	53.13	<.0001	1.79