

Appendix I: The graduate survey: dataset and indicators used

The analyses presented in Sections 2 and 4 are based on data from the UK sub-sample of a major international survey of graduate employment, funded by the EC in 1999. 16,104 graduates from the 1995 leaving cohort were randomly selected from 27 UK HE institutions stratified by size and type. 4,340 completed questionnaires were returned from the UK graduates (representing a response rate of 34%). Members of the sample were contacted by a mailed questionnaire. Before the analysis stage, the responses were weighted to reflect the subject spread and type of institution for the UK 1994/5 graduating cohort. The resulting database comprised 3461 UK graduates.

For the purposes of the present project, 2,997 full-time or sandwich course students were selected from the sample.

Operationalisation of the key concepts

Socio-biographical background

Socio-economic background

There are difficulties in identifying the social class of parents from the survey data. Firstly, respondents were asked to categorise their mothers'/fathers' occupation in a slightly revised way from the major groups used in the Standard Occupational Classification (SOC90). This coding system however was developed for categorising jobs by the analyst, with the help of a long list of occupations (SOC Manuals) on the basis of job title and job description provided by the respondents and not as a tool of self-categorisation by the respondents themselves. Consequently, reliability of data may be low. Secondly, the question inquired about parents' *current or most recent* job, rather than about the one at a standardised stage of the respondents' life.¹ Thirdly (and not irrespective of the other two problems) the proportion of missing cases was as high as 20% for fathers and 30% for mothers.

However, given the major importance of this measure, at some stages of the analysis it was still applied in the form of the following broad grouping². This categorisation is based on the occupation of the parent with the higher level job, or – when information on one of the parents was missing – on the only information available.

Table 1: Parents' occupation

Parents' occupation	Nos in sample		
	Male	Female	Total
Clerical or manual	349	469	818
Professional or managerial	745	1101	1846
Missing or other	123	210	333
Total	1217	1780	2997

To supplement and in many cases to substitute parents' occupation, the measure of parents' highest level of education was used. Although schooling of parents is not a good proxy of material circumstances in the family, it is a useful indicator of cultural background. However, it must be recognised that the enormous expansion of educational qualifications over the last 50 years poses problems in interpreting this measure as an indicator of broader social and cultural factors. It is of course an excellent measure of whether parents had first hand experience of higher education.

¹ In social mobility studies information collected on parents' characteristics often refer to the time when the respondent was 14 (sometimes 16) years old. In this way not only parents of similar age can be compared but also a crucial period of schooling decisions in the children's life can be captured.

² Originally we hoped to be able to test the distribution found against the HESA data, but in the end that proved to be even more imperfect.

Parents' highest levels of education³

Table 2: Parents' education

Parents' education	Nos in sample		
	Male	Female	Total
Both compulsory or less	397	523	920
At least one completed (upper) secondary	271	414	685
One higher education diploma/degree	292	468	760
Both HE	232	343	575
No answer	25	32	57
Total	1217	1780	2997

Ethnicity

In the graduate survey, the number of cases in most of the important ethnic minority groups was low. For this reason a broad categorisation was applied, and ethnic minority differences were more thoroughly analysed from the HESA dataset.

Table 3: Ethnicity of the graduate survey sample

Ethnicity	Nos in sample		
	Male	Female	Total
Asian	62	63	125
White British	1014	1511	2525
White other	110	160	270
Black	9	8	17
Other ethnic group	5	8	13
Not known	17	30	47
Total	1217	1780	2997

Age at entry into higher education

Three age groups were identified in order to differentiate not only between “traditional” and older entry age groups but also between those who postponed their studies by only a couple of years (entry age 21-24) and those who went back to studying after a longer break.⁴

Table 4: Age at entry into higher education

Age at entry into higher education	Nos in sample		
	Male	Female	Total
Under 21	816	1276	2092
21-24	189	212	401
25-	172	243	415
No response	40	49	89
Total	1217	1780	2997

Measuring employment success

Although participation in higher education can provide a wide range of benefits not only for the individual but also for the society as a whole, equality of outcomes can of course only be studied on the individual level. The study identifies the individual outcomes (benefits) of higher education studies with *opportunities and achievements* in the graduate labour market. Opportunities and achievements are understood in a broad sense and in every case are defined by measures of “success and failure”, i.e. measures which include a clear hierarchical dimension from “worse labour market situation” to the “better labour market situation”. Our analyses distinguished between objective and subjective measures of employment success. Inevitably these dimensions reflect values that might not be shared by the graduates themselves.

Objective measures of success

(question number from the survey questionnaire given in brackets)

³ In cases where only one parent's education was available, that was applied.

⁴ This categorisation is the one applied in HEFCE's report on employment indicators (2001).

Employment status and unemployment experiences:

- having no unemployment experience during the whole period investigated (c10, c11)
- not being unemployed for more than 5 months (c10, c11)
- being unemployed 6 months after graduation (from HESA data)

Income

- total gross annual income earned in the main job three and half years after graduation among those being employed (d11)

Quality of job – objective measure

- being in a graduate job 6 months after graduation, as it is defined in the “Moving On” study (DfEE 1999)⁵ (from HESA data)
- being in a graduate job three and a half years after graduation, as it is defined in the Warwick study (c10)
- being in a graduate job three and a half years after graduation, - graduate job defined as a professional or a managerial job. (c10)

Subjective measures of employment success

The following opinion variables were used

- (1) Do you anticipate that you will be promoted within the next three years? (c12)
- (2) Do you anticipate that you will get a higher income within the next three years? (c12)
- (3) What is the most appropriate level of education for your work? (f3)
- (4) How satisfied overall are you with your current employment status? (g1)
- (5) To what extent does “opportunities to use your knowledge and skills” apply to your work at the moment? (g3)
- (6) To what extent does “challenging tasks” apply to your work at the moment? (g3)
- (7) To what extent does “good career prospects” apply to your work at the moment? (g3)

It was certainly necessary and also sensible to reduce the number of dimensions here. After conducting the technical and statistical preparatory work⁶, the method of principal component analysis (with varimax rotation) was applied.

The first of the two factors explored is referred to as “*qualified job – subjective measure*”, while the second one is called “*middle-term career prospects*”. From the analysis it became apparent that general job satisfaction does not contribute to the separation of the factors, so it was decided to leave this out but to investigate it as a separate indicator. In addition, the question about the most appropriate level of education for the job is used separately as a binary outcome measure.

⁵ In the study by the Institute for Employment Research, jobs were categorised as “graduate”, “graduate track” and “non-graduate “. The categorisation is based on the Standard Occupational Categorisation (SOC). We are grateful to Abigail McKnight and John Thompson for providing us with the precise description of this grouping.

⁶ i.e. Replacing missing values in the case of those who didn't have more than 6 missing answers; excluding from the analysis those not working as their main activity and standardising the measures by calculating their z-scores.

Appendix II: Socio-biographical background and employment situation

		Current Job													
		At least once unemployed (%)		Unemp. for more than 5 Months (%)		Manager / Administrator / Professional (%)		In graduate job (IES) (%)		Does not feel overqualified (%)		Challenging job (points 1-5)		Opportunities to use skills (points 1-5)	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
<i>Parents' Education</i>															
Both compulsory or less	Mean or %	11%	7%	7%	3%	79%	73%	74%	71%	74%	73%	3.72	3.95	3.64	3.92
	N	422	532	422	532	392	486	392	486	385	465	386	475	383	475
At least one secondary	Mean or %	13%	7%	5%	3%	81%	68%	76%	60%	80%	73%	3.75	3.89	3.69	3.78
	N	279	387	279	387	267	358	267	358	261	359	261	361	261	358
One Higher Education Degree	Mean or %	10%	7%	5%	3%	79%	70%	75%	69%	81%	80%	3.70	3.82	3.81	3.89
	N	263	409	263	409	241	367	241	367	237	366	238	358	238	357
Both Higher Education Degree	Mean or %	11%	9%	6%	5%	75%	69%	80%	69%	82%	84%	3.90	3.81	4.06	3.94
	N	185	307	185	307	180	265	180	265	168	258	175	262	176	259
Missing	Mean or %	18%	19%	16%	7%	74%	48%	95%	54%	68%	64%	4.64	3.43	4.07	3.66
	N	18	33	18	33	12	23	12	23	9	21	10	21	10	20
<i>Parents' Occupation</i>															
Clerical or manual job	Mean or %	15%	8%	9%	2%	77%	69%	74%	65%	76%	73%	3.86	3.87	3.66	3.81
	N	338	452	338	452	317	426	317	426	306	411	313	415	315	416
Professional or managerial job	Mean or %	10%	7%	5%	3%	78%	70%	76%	69%	79%	79%	3.75	3.89	3.81	3.89
	N	704	1036	704	1036	640	913	640	913	631	901	627	900	625	892
Missing	Mean or %	8%	10%	5%	8%	85%	69%	81%	67%	82%	76%	3.57	3.80	3.79	4.00
	N	126	180	126	180	135	161	135	161	122	157	130	161	128	160
All	Mean or %	11%	8%	6%	4%	79%	70%	76%	68%	78%	77%	3.76	3.87	3.76	3.88
	N	1167	1667	1167	1667	1092	1499	1092	1499	1059	1469	1070	1476	1067	1468

<i>Ethnicity</i>															
Asian	Mean or %	13%	8%	9%	3%	88%	85%	84%	80%	81%	89%	3.82	4.06	3.58	4.24
	N	61	63	61	63	63	55	63	55	61	56	56	55	54	56
White British	Mean or %	10%	8%	6%	3%	78%	70%	75%	67%	78%	77%	3.74	3.89	3.73	3.88
	N	995	1417	995	1417	918	1284	918	1284	899	1257	905	1266	904	1259
White others	Mean or %	26%	8%	5%	7%	76%	63%	83%	62%	72%	73%	3.8	3.57	4.03	3.68
	N	89	127	89	127	91	111	91	111	81	109	90	108	90	108
Any other ethnicity	Mean or %	0%	6%	0%	0%	100%	77%	85%	68%	93%	74%	3.97	3.17	4.45	4.17
	N	8	21	8	21	9	16	9	16	9	17	9	16	9	16
Missing	Mean or %	21%	6%	17%	0	85%	52%	1	74%	100%	56%	4.43	4.18	4.45	3.77
	N	14	39	14	39	12	32	12	32	9	31	9	30	10	29
<i>Age of entry into HE</i>															
Below 21	Mean or %	11%	8%	4%	3%	77%	69%	75%	68%	78%	76%	3.80	3.90	3.72	3.83
	N	774	1200	774	1200	723	1069	723	1069	703	1054	709	1058	709	1050
21 - 24 years	Mean or %	10%	6%	9%	3%	80%	71%	86%	68%	84%	83%	3.89	3.97	3.87	4.01
	N	206	201	206	201	189	186	189	186	189	180	186	179	185	179
25 - years	Mean or %	18%	9%	11%	6%	83%	77%	67%	65%	73%	73%	3.39	3.74	3.74	4.10
	N	163	219	163	219	146	192	146	192	143	184	144	189	141	188
Missing	Mean or %	13%	11%	13%	6%	85%	54%	89%	62%	93%	75%	3.82	3.55	4.33	3.62
	N	24	47	24	47	35	53	35	53	24	50	32	51	32	51
All	Mean or %	11%	8%	6%	4%	79%	70%	76%	68%	78%	77%	3.76	3.87	3.76	3.88
	N	1167	1667	1167	1667	1092	1499	1092	1499	1059	1469	1070	1476	1067	1468

		Current Job													
		Graduate job, subjective (princ. comp)		Good career prospects (points 1-5)		Promotion expected (%)		A Higher Income expected (%)		Middle-term career prospects (princ. comp.)		Annual Income from major job (thousand £)		General sat. with emp. situation (points1-5)	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
<i>Parents' Education</i>															
Both compulsory or less	Mean or %	-0.14	0.05	3.46	3.47	61%	52%	81%	71%	0.08	-0.16	20.66	17.51	3.40	3.50
	N	385	474	380	472	391	478	391	478	385	474	366	425	391	481
At least one secondary	Mean or %	-0.09	0.02	3.47	3.57	68%	65%	83%	69%	0.18	-0.03	22.46	18.52	3.54	3.63
	N	266	361	261	358	267	368	267	368	266	361	248	323	270	361
One Higher Education Degree	Mean or %	-0.03	0.08	3.58	3.60	69%	57%	85%	73%	0.19	-0.08	20.95	18.38	3.56	3.70
	N	240	359	239	356	244	356	244	356	240	359	227	320	239	365
Both Higher Education Degree	Mean or %	0.12	0.09	3.60	3.47	72%	54%	88%	76%	0.24	-0.13	24.08	18.52	3.60	3.56
	N	176	263	173	262	181	267	181	267	176	263	158	238	179	265
Missing	Mean or %	0.30	-0.30	3.52	3.31	49%	45%	76%	66%	-0.27	-0.39	18.20	13.65	3.44	3.34
	N	10	21	9	21	12	23	12	23	10	21	12	22	8	22
<i>Parents' Occupation</i>															
Clerical or manual job	Mean or %	-0.11	-0.03	3.35	3.42	62%	58%	80%	72%	0.04	-0.08	21.11	17.47	3.35	3.51
	N	314	416	310	413	314	414	314	414	314	416	288	370	317	418
Professional or managerial job	Mean or %	-0.04	0.09	3.58	3.60	69%	57%	86%	73%	0.23	-0.10	22.10	18.55	3.56	3.65
	N	631	900	625	894	645	920	645	920	631	900	602	831	637	914
Missing	Mean or %	-0.04	0.03	3.61	3.34	64%	53%	78%	70%	0.05	-0.22	20.87	16.87	3.63	3.48
	N	131	161	129	161	135	157	135	157	131	161	121	128	133	162
All	Mean or %	-0.06	0.05	3.52	3.52	66%	57%	83%	72%	0.15	-0.11	21.67	18.08	3.50	3.59
	N	1076	1477	1063	1468	1094	1491	1094	1491	1076	1477	1011	1328	1087	1494

<i>Ethnicity</i>															
Asian	Mean or %	-0.11	0.41	3.56	3.87	56%	66%	84%	75%	0.09	-0.06	21.69	16.82	3.56	3.64
	N	58	55	56	54	64	58	64	58	58	55	56	44	64	56
White British	Mean or %	-0.09	0.06	3.48	3.54	67%	58%	84%	73%	0.17	-0.08	21.57	18.21	3.50	3.62
	N	910	1267	900	1260	921	1279	921	1279	910	1267	864	1155	916	1280
White others	Mean or %	0.1	-0.17	3.71	3.21	66%	43%	75%	63%	0.03	-0.38	22.99	17.72	3.53	3.39
	N	90	109	89	109	90	106	90	106	90	109	74	87	90	110
Any other ethnicity	Mean or %	0.64	0.04	4.46	3.93	62%	34%	69%	62%	-0.11	-0.29	22.1	19.8	3.04	3.24
	N	9	16	9	16	9	17	9	17	9	16	7	14	9	18
Missing	Mean or %	0.63	-0.16	3.82	3.19	86%	40%	83%	81%	0.21	-0.17	20.28	15.22	3.80	3.23
	N	9	30	9	29	11	31	11	31	9	30	11	28	8	29
<i>Age of entry into HE</i>															
Below 21	Mean or %	-0.09	0.05	3.51	3.61	70%	61%	88%	75%	0.26	0.00	21.86	18.20	3.42	3.63
	N	714	1059	706	1052	728	1073	728	1073	714	1059	683	999	725	1067
21 - 24 years	Mean or %	0.09	0.18	3.67	3.46	66%	53%	86%	70%	0.19	-0.21	22.00	18.05	3.87	3.55
	N	187	178	183	179	191	183	191	183	187	178	171	158	190	184
25 - years	Mean or %	-0.22	0.03	3.19	3.22	46%	36%	59%	57%	-0.42	-0.59	18.89	17.41	3.35	3.50
	N	144	189	143	186	142	190	142	190	144	189	128	133	142	192
Missing	Mean or %	0.46	-0.22	4.16	3.08	73%	56%	77%	61%	0.10	-0.23	27.48	17.99	3.99	3.21
	N	32	51	32	51	33	46	33	46	32	51	29	42	31	51
All	Mean or %	-0.06	0.05	3.52	3.52	66%	57%	83%	72%	0.15	-0.11	21.67	18.08	3.50	3.59
	N	1076	1477	1063	1468	1094	1491	1094	1491	1076	1477	1011	1328	1087	1494

Appendix III: Higher education and employment success

		At least once unemployed (%)	Unemp. for more than 5 Months (%)	Manager / Administrator / Professional (%)	In graduate job (IES) (%)	Does not feel overqualified (%)	Challenging job (points 1-5)	Opportunities to use skills (points 1-5)
By type of institution								
Old universities	Mean or %	9%	4%	77%	73%	82%	3.88	3.90
	N	1356	1356	1193	1193	1170	1180	1176
New universities	Mean or %	9%	4%	71%	71%	76%	3.81	3.77
	N	1121	1121	1060	1060	1025	1033	1027
Colleges	Mean or %	11%	6%	70%	68%	67%	3.66	3.77
	N	356	356	338	338	333	333	333
By type of field								
Vocational art	Mean or %	7%	3%	84%	79%	83%	3.86	4.00
	N	637	637	625	625	601	607	606
Vocational science	Mean or %	6%	3%	77%	75%	87%	3.92	4.02
	N	678	678	631	631	623	625	619
Non-vocational art	Mean or %	12%	6%	67%	62%	67%	3.72	3.58
	N	1095	1095	989	989	968	972	969
Non-vocational science	Mean or %	11%	5%	69%	77%	80%	3.91	3.88
	N	424	424	346	346	336	342	341
All	Mean or %	9%	5%	74%	71%	77%	3.83	3.83
	N	2834	2834	2591	2591	2528	2546	2536

		Graduate job, subjective (princ. comp)	Good career prospects (points 1-5)	Promotion expected (%)	A Higher Income expected (%)	Middle-term career prospects (princ. comp.)	Annual Income from major job (thousand £)	General sat. with emp. situation (points 1-5)
By type of institution								
Old universities	Mean or %	0.11	3.64	62%	78%	0.01	20.77	3.63
	N	1186	1171	1215	1215	1186	1100	1200
New universities	Mean or %	-0.05	3.44	61%	76%	0.00	19.23	3.53
	N	1034	1028	1048	1048	1034	941	1047
Colleges	Mean or %	-0.18	3.33	55%	76%	-0.03	16.72	3.38
	N	333	333	322	322	333	299	334
By type of field								
Vocational art	Mean or %	0.13	3.59	62%	77%	0.00	19.43	3.62
	N	612	604	619	619	612	556	613
Vocational science	Mean or %	0.19	3.64	66%	80%	0.06	23.21	3.66
	N	625	619	628	628	625	573	629
Non-vocational art	Mean or %	-0.22	3.38	57%	76%	-0.01	17.67	3.41
	N	977	970	986	986	977	891	994
Non-vocational science	Mean or %	0.08	3.56	61%	75%	-0.05	19.05	3.65
	N	340	339	352	352	340	320	345
All	Mean or %	0.00	3.52	61%	77%	0.00	19.63	3.55
	N	2554	2532	2585	2585	2554	2339	2581

Appendix IV: Regression Models

IV. /1. Males: Logit models for various binary employment outcomes. Exp(B)

	Being unemployed for more than 6 months	Graduate job (IER)	Manager / professional job	Most appropriate level of education is HE
Constant	0.014***	13.244***	5.22***	30.479***
Parents' education: both HE (baseline)				
Parents' education: compulsory	1.348	0.925	1.418	0.715
Parents' education: secondary	1.258	0.999	1.409	1.005
Parents' education: one of them HE	0.837	0.959	1.35	1.074
Parents' education unknown	1.587	9.246	0.882	0.193*
White British (baseline)				
Asian	2.566*	1.466	1.939	0.857
White non-British	1.175	1.577	1.014	0.59*
Black	0.004	2.243	103.935	3.278
Other ethnic group	0.004	1.859	258.119	67.505
Ethnicity unknown	2.173	235.594	1.286	146.224
Entry age: -20 (baseline)				
Entry age 21-24	2.292**	1.952***	1.188	1.616*
Entry age 25-	5.613***	0.438***	1.254	0.864
Entry age unknown	3.335	1.903	2.4	3.389
School-type entry qualification (baseline)				
Vocational / professional qualification	0.826	3.261***	1.461	0.888
Other entry qualification	0.526	1.184	0.529*	0.826
No qualification at entry	5.516	0.414	0.058***	0.141***
Type of entry qualification unknown	0.002	2.267	5.855	0.597
"High" entry grades				
"Medium" or "low" entry grades	0.927	0.781	0.638**	0.378***
Unknown entry grades	0.1	3.038*	8.764**	0.573
Old universities (baseline)				
New university	1.413	0.908	0.733	0.959
College	2.407*	0.566*	0.69	0.567*
Law (baseline)				
Medicine, dentistry, veterinary science	0.005	151.228	294.81	3.547
Subjects allied to medicine	0.002	0.257	0.299*	0.307
Biological sciences	1.84	0.256**	0.353**	0.937
Physical sciences	2.315	0.249**	0.369**	0.333*
Mathematical sciences	1.215	0.7	1.812	0.6
Computing	0.179	2.07	7.29**	1.455
Engineering, technology, agriculture	0.726	0.358**	1.201	0.565
Architecture, building, planning	1.19	0.23**	0.957	0.534
Education	0.626	0.77	1.846	1.719
Social sciences	1.819	0.17***	0.519	0.29**
Business and administration	0.692	0.26**	1.151	0.458
Librarianship and information	0.101	0.041***	1.243	5.387
Languages, humanities	3.846*	0.171***	0.701	0.387
Arts	10.767***	0.396	0.377**	0.182***
Combined studies	0.68	0.22***	0.456*	0.162***
Upper second class degree (baseline)				
First class honours degree	0.153	0.927	1.407	0.91
Lower degree	1.766*	0.767	0.955	0.552***
Class of degree unknown	1.059	0.523**	0.558*	0.457**
-2 log likelihood	421.455	1060.688	1006.387	955.916
Cox & Snell R square	0.091	0.12	0.106	0.131
Nagelkerke R square	0.249	0.18	0.165	0.202

IV./2 Males: Linear regression models for various employment outcomes

	Level of job – subjective	Middle-term carrier prospects	Yearly income (logarithm)	Satisfaction with employment situation
Constant	0.63***	0.61***	3.18***	3.68***
Parents' education: both HE (baseline)				
Parents' education: compulsory	-0.14*	-0.10	-0.08*	-0.17*
Parents' education: secondary	-0.09	-0.05	-0.08	-0.05
Parents' education: one of them HE	-0.06	-0.02	-0.06	-0.02
Parents' education unknown	-0.02	-0.45	-0.28*	-0.30
White British (baseline)				
Asian	-0.15	-0.06	-0.02	-0.03
White non-British	0.03	-0.07	-0.01	-0.13
Black	0.73**	-0.03	-0.21	-0.54
Other ethnic group	0.35	-0.09	0.03	-0.55
Ethnicity unknown	0.46	0.18	-0.05	0.14
Entry age: <20 (baseline)				
Entry age 21-24	0.20**	-0.13	0.07*	0.52***
Entry age 25-	-0.11	-0.69***	-0.04	0.09
Entry age unknown	0.52***	-0.13	0.36***	0.63***
School-type entry qualification (baseline)				
Vocational / professional qualification	-0.03	0.12	-0.05	-0.03
Other entry qualification	0.16	-0.07	-0.09	-0.11
No qualification at entry	-0.89***	0.66**	0.13	-1.25***
Type of entry qualification unknown	-0.58***	0.00	-0.02	-0.26
"High" entry grades				
"Medium" or "low" entry grades	-0.25***	0.08	-0.06*	-0.08
Unknown entry grades	-0.36**	-0.09	-0.21**	-0.09
Old universities (baseline)				
New university	-0.11	0.10	-0.02	-0.14*
College	-0.35***	0.12	-0.04	-0.41***
Law (baseline)				
Medicine, dentistry, veterinary science	0.04	-0.21	0.20*	0.06
Subjects allied to medicine	-0.66**	-0.42	0.11	-0.17
Biological sciences	-0.22	-0.53***	-0.06	0.06
Physical sciences	-0.29*	-0.52***	-0.05	0.09
Mathematical sciences	0.01	-0.23	0.10	0.50**
Computing	0.17	-0.17	0.46***	0.43**
Engineering, technology, agriculture	-0.22	-0.21	0.15**	0.11
Architecture, building, planning	-0.28	-0.43***	0.04	0.20
Education	0.06	-0.61***	-0.13	0.15
Social sciences	-0.64***	-0.41***	-0.01	-0.08
Business and administration	-0.23	-0.15	0.06	0.31*
Librarianship and information	0.47	-0.75***	-0.50***	0.45
Languages, humanities	-0.48***	-0.37**	-0.19**	-0.22
Arts	-0.67***	-0.65***	-0.18*	-0.13
Combined studies	-0.58***	-0.40**	-0.04	-0.05
Upper second class degree (baseline)				
First class honours degree	0.21*	0.06	-0.06	-0.06
Lower degree	-0.20***	-0.15**	-0.22***	-0.26***
Class of degree unknown	-0.08	-0.10	-0.26***	0.01
R Square	0.181	0.124	0.2	0.109
Adjusted R Square	0.151	0.092	0.168	0.077

IV. /3. Females: Logit models for various binary employment outcomes. Exp(B)

	Being unemployed for more than 6 months	Graduate job (IER)	Manager / professional job	Most appropriate level of education is HE
Constant	0.079***	9.499***	3.843***	8.034***
Parents' education: both HE (baseline)				
Parents' education: compulsory	0.637	1.28	1.295	0.494***
Parents' education: secondary	0.472*	0.679**	0.936	0.462***
Parents' education: one of them HE	0.644	1.048	1.084	0.749
Parents' education unknown	3.39	0.295**	0.711	0.389
White British (baseline)				
Asian	0.946	1.693	2.377**	3.106**
White non-British	1.358	0.959	0.858	0.734
Black	0.001	451.431	1.317	0.288
Other ethnic group	0.003	0.373	0.828	0.966
Ethnicity unknown	0	4.428***	1.029	0.441*
Entry age: -20 (baseline)				
Entry age 21-24	0.829	0.755	0.915	1.522*
Entry age 25-	1.822	0.692*	1.244	0.817
Entry age unknown	4.345**	0.718	0.516**	1.672
School-type entry qualification (baseline)				
Vocational / professional qualification	2.831**	0.841	1.111	0.674
Other entry qualification	1.793	0.938	0.856	0.497**
No qualification at entry	0.002	31.975	21.101	0.717
Type of entry qualification unknown	2.817	0.21***	0.818	0.642
"High" entry grades				
"Medium" or "low" entry grades	1.014	1.065	1.015	1.195
Unknown entry grades	0.262	2.018	1.659	2.364
Old universities (baseline)				
New university	0.385***	0.793	0.72**	0.683**
College	0.04***	0.843	0.931	0.555***
Law (baseline)				
Medicine, dentistry, veterinary science	0.001	7.461*	17.141***	13.227**
Subjects allied to medicine	1.053	0.044***	0.106***	10.142***
Biological sciences	1.002	0.332**	0.569	1.1
Physical sciences	0.38	0.295**	0.348**	1.008
Mathematical sciences	0.001	0.909	1.682	2.269
Computing	4.714*	0.781	5.596	3.773
Engineering, technology, agriculture	0.29	0.472	0.937	1.333
Architecture, building, planning	3.949	0.252**	1.202	4.497
Education	0.228	1.534	8.528***	11.281***
Social sciences	0.678	0.125***	0.858	0.923
Business and administration	0.757	0.378**	1.095	0.988
Librarianship and information	0.651	0.142***	1.904	5.491*
Languages, humanities	1.101	0.158***	0.782	0.629
Arts	3.08	0.239***	0.316***	0.746
Combined studies	0.724	0.138***	0.375***	0.372**
Upper second class degree (baseline)				
First class honours degree	0.285	1.885**	2.173**	2.809***
Lower degree	0.902	1.199	0.801	0.572***
Class of degree unknown	1.199	0.783	0.609*	0.485**
-2 log likelihood ***	429.268	1616.694	1554.635	1356.455
Cox & Snell R square	0.046	0.167	0.17	0.15
Nagelkerke R square	0.174	0.233	0.24	0.226

IV./4 Females: Linear regression models for various employment outcomes

	Level of job – subjective	Middle-term carrier prospects	Yearly income (logarithm)	Satisfaction with employment situation
Constant	0.33**	0.05	2.88***	3.71***
Parents' education: both HE (baseline)				
Parents' education: compulsory	0.01	0.02	-0.02	-0.01
Parents' education: secondary	-0.01	0.14*	0.04	0.09
Parents' education: one of them HE	0.01	0.07	0.01	0.16*
Parents' education unknown	-0.21	-0.33	-0.22*	-0.02
White British (baseline)				
Asian	0.44***	0.02	-0.10	0.08
White non-British	-0.26**	-0.38***	-0.13***	-0.27**
Black	-0.54	-0.01	0.05	-0.95**
Other ethnic group	0.15	-0.30	0.11	-0.07
Ethnicity unknown	-0.05	0.13	-0.02	-0.26
Entry age: -20 (baseline)				
Entry age 21-24	0.13	-0.16*	0.02	-0.11
Entry age 25-	-0.06	-0.54***	-0.03	-0.18*
Entry age unknown	-0.12	-0.14	0.02	-0.32**
School-type entry qualification (baseline)				
Vocational / professional qualification	-0.17	0.16	-0.14**	0.13
Other entry qualification	-0.13	-0.03	-0.11*	0.02
No qualification at entry	0.17	-0.06	-0.17	-0.42
Type of entry qualification unknown	-0.08	0.25	-0.04	-0.20
"High" entry grades				
"Medium" or "low" entry grades	-0.22***	-0.25***	-0.05*	-0.12*
Unknown entry grades	-0.18	-0.62***	0.06	0.07
Old universities (baseline)				
New university	-0.03	-0.04	-0.06**	-0.11
College	-0.15*	0.21**	-0.06	-0.19**
Law (baseline)				
Medicine, dentistry, veterinary science	0.36*	-0.46**	0.27***	-0.10
Subjects allied to medicine	0.31*	-0.39**	0.07	0.27
Biological sciences	-0.02	-0.10	-0.04	-0.05
Physical sciences	0.11	0.29	-0.02	0.11
Mathematical sciences	-0.07	-0.14	0.05	0.11
Computing	0.26	0.58**	0.38***	0.66**
Engineering, technology, agriculture	-0.01	0.13	0.17**	-0.07
Architecture, building, planning	0.31	0.12	0.24**	0.28
Education	0.48***	-0.56***	0.12	0.28
Social sciences	-0.20	0.09	0.00	-0.14
Business and administration	-0.09	0.28*	0.12*	-0.04
Librarianship and information	0.16	0.25	0.22*	-0.05
Languages, humanities	-0.25	0.12	-0.08	-0.19
Arts	-0.31*	-0.03	-0.11	-0.18
Combined studies	-0.22	-0.03	-0.02	0.03
Upper second class degree (baseline)				
First class honours degree	0.31***	0.13	0.19***	0.37***
Lower degree	-0.06	0.13**	-0.03	0.10
Class of degree unknown	-0.27***	0.17	-0.09*	-0.11
R Square	0.095	0.122	0.108	0.057
Adjusted R Square	0.071	0.099	0.082	0.032

Appendix V: Employment Success Models with Interaction Effects

V/1 Graduate Job / By type of subject studied

	Males		Females	
	Main effects only	Interaction effects added	Main effects only	Interaction effects added
Constant	4.92***	7.00***	5.01***	6.29***
Parents' education: compulsory	0.81	0.39	1.20	0.75
Parents' education: secondary	0.87	0.57	0.69**	0.43*
Parents' education: one of them HE	0.85	0.84	1.02	0.73
Parents' education unknown	5.78	0.10	0.29**	0.19*
Asian	1.61	1.61	1.92*	1.95*
White non-British	1.42	1.42	0.74	0.78
Black	1.37	0.97	95.24	93.87
Other ethnic group	1.25	0.75	0.53	0.52
Ethnicity unknown	109.65	425.25	3.24**	2.88**
Entry age 21-24	1.80**	3.10**	0.83	1.13
Entry age 25-	0.55**	0.66	0.75	1.37
Entry age unknown	1.93	3.92	0.85	1.15
Vocational / professional qualification	2.94***	2.99***	0.83	0.86
Other entry qualification	1.32	1.40	0.90	0.97
No qualification at entry	0.58	0.22*	22.32	30.24
No information about entry qualification	2.70	1.74	0.24***	0.22***
"Medium" or "low" entry grades	0.67**	0.65**	0.95	0.95
Unknown entry grades	1.76	2.29	1.62	1.59
New university	0.94	0.90	0.74	0.74**
College	0.70	0.68	0.89	0.89
Vocational Science	1.33	0.69	0.38***	0.39*
Non-vocational Art	0.67*	0.53	0.31***	0.26***
Non-vocational Science	0.96	0.69	0.77	0.25**
First class honours degree	0.90	0.88	2.45***	2.45***
Lower degree	0.82	0.83	1.39**	1.37**
Class of degree unknown	0.76	0.72	1.45	1.33
Vocational science - Parents' education: compulsory		3.84*		0.58
Vocational science - Parents' education: secondary		1.74		1.72
Vocational science - Parents' education: one HE		1.70		0.94
Vocational science - Parents' education: unknown		1211.29		0.60
Non-vocational art – Parents' education: compulsory		2.00		2.09
Non-vocational art – Parents' education: secondary		1.93		1.43
Non-vocational art – Parents' education: one HE		0.65		1.34
Non-vocational art – Parents' education: unknown		124.53		2.38
Non-vocational science – Parents' education: compulsory		2.58		3.91*
Non-vocational science – Parents' education: secondary		1.56		4.37**
Non-vocational science – Parents' education: one HE		1.18		5.15**
Non-vocational science – Parents' education: unknown		772.62		6.23
Vocational science – Entry age 21-24		0.32*		1.61
Vocational science – Entry age 25-		2.95		0.71
Vocational science – Entry age unknown		0.09		1.63
Non-vocational Art – Entry age 21-24		1.03		0.42*
Non-vocational Art – Entry age 25-		0.49		0.41*
Non-vocational Art – Entry age unknown		94.95		0.53
Non-vocational Science – Entry age 21-24		0.43		0.82
Non-vocational Science – Entry age 25-		0.48		0.49
Non-vocational Science – Entry age unknown		0.45		0.84
-2 log likelihood	1118.805	1084.529	1751.910	1722.045
Cox & Snell R Square	.072	.101	.089	.107
Nagelkerke R Square	.108	.151	.124	.149

V/2 Most appropriate level of education for your job = HE / By type of subject studied

	Males		Females	
	Main effects only	Interaction effects added	Main effects only	Interaction effects added
Constant	22.71***	0.32	12.65***	12.26***
Parents' education: compulsory	0.70	0.43	0.53***	0.52
Parents' education: secondary	0.95	0.55	0.51***	0.64
Parents' education: one of them HE	1.03	3.30	0.79	0.93
Parents' education unknown	0.20*	1.10	0.40	0.15*
Asian	0.95	0.62	2.75**	2.42*
White non-British	0.58*	3.77	0.66*	0.70
Black	2.87	118.72	0.40	0.38
Other ethnic group	51.78	891.81	2.00	2.19
Ethnicity unknown	125.38	1.05	0.40**	0.26***
Entry age 21-24	1.63**	1.12	1.65**	1.53
Entry age 25-	1.02	7.12	0.97	1.11
Entry age unknown	3.42	0.72	1.60	1.26
Vocational / professional entry qualification	0.77	0.87	0.51**	0.51**
Other entry qualification	0.80	0.16**	0.56**	0.58**
No qualification at entry	0.18**	0.47	0.67	0.63
No information on entry qualification	0.56	0.34***	0.55	0.67
"Medium" or "low" entry grades	0.34***	0.48	1.11	1.13
Unknown entry grades	0.43*	0.89	2.29	2.21
New university	0.92	0.56*	0.70**	0.67**
College	0.60*	0.52	0.63**	0.58***
Vocational Science	0.97	0.11***	2.15***	2.31
Non-vocational Art	0.35***	0.36	0.35***	0.41*
Non-vocational Science	0.69	0.89	0.72	0.37
First class honours degree	0.84	0.58***	2.60**	2.72**
Lower degree	0.56***	0.66	0.63***	0.62***
Class of degree unknown	0.63	2.08	0.65	0.66
Vocational science - Parents' education: compulsory		1.60		0.86
Vocational science - Parents' education: secondary		1.78		0.55
Vocational science - Parents' education: one HE		0.01		1.70
Vocational science - Parents' education: unknown		3.71		542.19
Non-vocational art – Parents' education: compulsory		3.45		1.02
Non-vocational art – Parents' education: secondary		2.28		0.68
Non-vocational art – Parents' education: one HE		0.18		0.66
Non-vocational art – Parents' education: unknown		1.32		0.55
Non-vocational science – Parents' education: compulsory		2.40		1.79
Non-vocational science – Parents' education: secondary		2.21		2.32
Non-vocational science – Parents' education: one HE		10.29		2.51
Non-vocational science – Parents' education: unknown		1.35		523.43
Vocational science – Entry age 21-24		1.00		0.52
Vocational science – Entry age 25-		0.26		1.15
Vocational science – Entry age unknown		3.03		20.39
Non-vocational Art – Entry age 21-24		0.62		1.54
Non-vocational Art – Entry age 25-		109.33		0.84
Non-vocational Art – Entry age unknown		1.98		0.98
Non-vocational Science – Entry age 21-24		1.84		0.39
Non-vocational Science – Entry age 25-		0.30		0.58
Non-vocational Science – Entry age unknown		47.49***		189.20
-2 log likelihood	982.922	968.817	1424.963	1397.338
Cox & Snell R Square	.109	.120	.109	.126
Nagelkerke R Square	.168	.186	.165	.190

V/3 Income / By type subject studied

	Males		Females	
	Main effects only	Interaction effects added	Main effects only	Interaction effects added
Constant	3.18***	3.36***	2.97***	2.90***
Parents' education: compulsory	-0.09*	-0.31***	-0.02	0.08
Parents' education: secondary	-0.08	-0.31***	0.05	0.06
Parents' education: one of them HE	-0.08	-0.13	0.02	0.10
Parents' education unknown	-0.32**	-0.31	-0.25**	-0.36*
Asian	-0.02	0.00	-0.10	-0.08
White non-British	-0.03	-0.06	-0.14***	-0.13***
Black	-0.17	-0.18	0.08	0.03
Other ethnic group	0.12	0.06	0.16	0.18
Ethnicity unknown	0.00	0.11	0.01	0.01
Entry age 21-24	0.07	0.04	0.03	0.08
Entry age 25-	-0.03	0.04	-0.02	-0.03
Entry age unknown	0.38***	0.22	0.04	0.03
Vocational / professional entry qualification	-0.07	-0.07	-0.14**	-0.13**
Other entry qualification	-0.06	-0.05	-0.13**	-0.11*
No qualification at entry	0.17	0.06	-0.19	-0.24
No information on entry qualification	0.00	-0.08	-0.03	-0.06
"Medium" or "low" entry grades	-0.07*	-0.08**	-0.05*	-0.05*
Unknown entry grades	-0.24***	-0.20**	0.03	0.08
New university	-0.02	-0.02	-0.07**	-0.05
College	-0.11**	-0.12**	-0.07*	-0.05
Vocational Science	0.19***	0.05	0.07*	0.16*
Non-vocational Art	-0.08**	-0.38***	-0.15***	-0.07
Non-vocational Science	-0.02	-0.26**	-0.12***	-0.01
First class honours degree	-0.08	-0.08	0.20***	0.20***
Lower degree	-0.20***	-0.21***	-0.02	-0.03
Class of degree unknown	-0.28***	-0.29***	-0.07	-0.09*
Vocational science - Parents' education: compulsory		0.25**		-0.04
Vocational science - Parents' education: secondary		0.15		-0.03
Vocational science - Parents' education: one HE		-0.01		-0.15
Vocational science - Parents' education: unknown		-0.24		0.04
Non-vocational art – Parents' education: compulsory		0.35***		-0.16*
Non-vocational art – Parents' education: secondary		0.40***		-0.03
Non-vocational art – Parents' education: one HE		0.24		-0.06
Non-vocational art – Parents' education: unknown		0.36		0.22
Non-vocational science – Parents' education: compulsory		0.32**		-0.19
Non-vocational science – Parents' education: secondary		0.55***		-0.02
Non-vocational science – Parents' education: one HE		0.10		-0.18
Non-vocational science – Parents' education: unknown		-0.21		0.25
Vocational science – Entry age 21-24		0.06		-0.13
Vocational science – Entry age 25-		0.03		-0.01
Vocational science – Entry age unknown		-0.02		-0.24
Non-vocational Art – Entry age 21-24		0.10		-0.13
Non-vocational Art – Entry age 25-		-0.19		0.03
Non-vocational Art – Entry age unknown		0.46*		0.03
Non-vocational Science – Entry age 21-24		-0.13		0.24
Non-vocational Science – Entry age 25-		-0.24		-0.05
Non-vocational Science – Entry age unknown		0.20		0.04
R Square	.149	.182	.092	.108
Adjusted R Square	.127	.142	.074	.075

V/4 Graduate Job / By type of HE institution

	Males		Females	
	Main effects only	Interaction effects added	Main effects only	Interaction effects added
Constant	4.92***	6.05***	5.01***	6.20***
Parents' education: compulsory	0.81	0.89	1.20	0.62*
Parents' education: secondary	0.87	0.83	0.69**	0.81
Parents' education: one of them HE	0.85	0.63	1.02	0.93
Parents' education unknown	5.78	3.07	0.29**	0.27
Asian	1.61	1.61	1.92*	1.87*
White non-British	1.42	1.35	0.74	0.77
Black	1.37	1.56	95.24	63.36
Other ethnic group	1.25	1.22	0.53	0.54
Ethnicity unknown	109.65	246.75	3.24**	3.40**
Entry age 21-24	1.80**	0.51*	0.83	1.46
Entry age 25-	0.55**	0.40***	0.75	0.41***
Entry age unknown	1.93	3.77	0.85	0.99
Vocational / professional qualification	2.94***	2.97***	0.83	0.87
Other entry qualification	1.32	1.16	0.90	1.00
No qualification at entry	0.58	0.46	22.32	17.93
No information about entry qualification	2.70	2.41	0.24***	0.21***
"Medium" or "low" entry grades	0.67**	0.66**	0.95	0.95
Unknown entry grades	1.76	1.98	1.62	1.54
New university	0.94	0.36**	0.74	0.58
College	0.70	1.53	0.89	0.43**
Vocational Science	1.33	1.33	0.38***	0.35***
Non-vocational Art	0.67*	0.65**	0.31***	0.30***
Non-vocational Science	0.96	0.90	0.77	0.72
First class honours degree	0.90	0.85	2.45***	2.40***
Lower degree	0.82	0.87	1.39**	1.44***
Class of degree unknown	0.76	0.84	1.45	1.43
New university - Parents' education: compulsory		1.79		2.45**
New university - Parents' education: secondary		2.11		0.69
New university - Parents' education: one HE		3.01**		0.93
New university - Parents' education: unknown		208.70		1.05
College - Parents' education: compulsory		0.22*		6.40***
College - Parents' education: secondary		0.14*		1.36
College - Parents' education: one HE		0.53		2.70*
College - Parents' education: unknown		0.01		1.96
New university - Entry age 21-24		5.91***		0.52
New university - Entry age 25-		2.25*		3.96***
New university - Entry age unknown		0.11*		0.70
College - Entry age 21-24		10.45***		0.26**
College - Entry age 25-		1.39		1.15
College - Entry age unknown		96.46		0.68
-2 log likelihood	1118.805	1083.698	1751.910	1706.763
Cox & Snell R Square	.072	.101	.089	.116
Nagelkerte R Square	.108	.152	.124	.161

V/5 Most appropriate level of education for your job = HE / By type of HE institution

	Males		Females	
	Main effects only	Interaction effects added	Main effects only	Interaction effects added
Constant	22.71***	22.89***	12.65***	15.78***
Parents' education: compulsory	0.70	0.94	0.53***	0.41***
Parents' education: secondary	0.95	1.26	0.51***	0.42***
Parents' education: one of them HE	1.03	0.73	0.79	0.75
Parents' education unknown	0.20*	0.27	0.40	0.21
Asian	0.95	0.97	2.75**	1.93
White non-British	0.58*	0.65	0.66*	0.72
Black	2.87	3.41	0.40	0.30
Other ethnic group	51.78	201.07	2.00	1.97
Ethnicity unknown	125.38	7679.19	0.40**	0.47*
Entry age 21-24	1.63**	0.34***	1.65**	0.49*
Entry age 25-	1.02	0.48**	0.97	0.47**
Entry age unknown	3.42	2.69	1.60	1.17
Vocational / professional entry qualification	0.77	0.81	0.51**	0.52**
Other entry qualification	0.80	0.85	0.56**	0.53**
No qualification at entry	0.18**	0.14**	0.67	0.95
No information on entry qualification	0.56	0.61	0.55	0.61
"Medium" or "low" entry grades	0.34***	0.39***	1.11	1.26
Unknown entry grades	0.43*	0.54	2.29	2.23
New university	0.92	1.05	0.70**	0.48
College	0.60*	0.19***	0.63**	0.18***
Vocational Science	0.97	1.03	2.15***	2.16***
Non-vocational Art	0.35***	0.40***	0.35***	0.35***
Non-vocational Science	0.69	0.71	0.72	0.69
First class honours degree	0.84	1.02	2.60**	2.47**
Lower degree	0.56***	0.59***	0.63***	0.73**
Class of degree unknown	0.63	0.51**	0.65	0.70
New university - Parents' education: compulsory		0.47		0.98
New university - Parents' education: secondary		0.34		1.67
New university - Parents' education: one HE		0.95		0.72
New university - Parents' education: unknown		0.01		1.37
College - Parents' education: compulsory		0.70		3.98**
College - Parents' education: secondary		1.24		0.66
College - Parents' education: one HE		10.60**		2.83
College - Parents' education: unknown		626.60		8.49
New university - Entry age 21-24		8.44***		4.99***
New university - Entry age 25-		3.35**		3.03**
New university - Entry age unknown		1.17		2.04
College - Entry age 21-24		13.95***		8.08***
College - Entry age 25-		14.69***		10.60***
College - Entry age unknown		0.85		0.93
-2 log likelihood	982.922	936.153	1424.963	1371.725
Cox & Snell R Square	.109	.147	.109	.141
Nagelkerke R Square	.168	.227	.165	.213

V/6 Income / By type of HE institution

	Males		Females	
	Main effects only	Interaction effects added	Main effects only	Interaction effects added
Constant	3.18***	3.17***	2.97***	2.99***
Parents' education: compulsory	-0.09*	-0.08	-0.02	-0.07
Parents' education: secondary	-0.08	-0.05	0.05	0.07
Parents' education: one of them HE	-0.08	-0.03	0.02	0.02
Parents' education unknown	-0.32**	-0.37**	-0.25**	-0.25
Asian	-0.02	-0.03	-0.10	-0.11
White non-British	-0.03	-0.04	-0.14***	-0.14***
Black	-0.17	-0.16	0.08	0.04
Other ethnic group	0.12	0.13	0.16	0.15
Ethnicity unknown	0.00	0.01	0.01	-0.01
Entry age 21-24	0.07	0.10	0.03	-0.05
Entry age 25-	-0.03	-0.09	-0.02	-0.06
Entry age unknown	0.38***	0.48***	0.04	-0.09
Vocational / professional entry qualification	-0.07	-0.06	-0.14**	-0.14**
Other entry qualification	-0.06	-0.06	-0.13**	-0.11*
No qualification at entry	0.17	0.14	-0.19	-0.14
No information on entry qualification	0.00	-0.03	-0.03	-0.03
"Medium" or "low" entry grades	-0.07*	-0.07*	-0.05*	-0.06**
Unknown entry grades	-0.24***	-0.21**	0.03	0.04
New university	-0.02	0.02	-0.07**	-0.12*
College	-0.11**	-0.04	-0.07*	-0.11
Vocational Science	0.19***	0.18***	0.07*	0.06
Non-vocational Art	-0.08**	-0.10**	-0.15***	-0.16***
Non-vocational Science	-0.02	-0.04	-0.12***	-0.13***
First class honours degree	-0.08	-0.08	0.20***	0.19***
Lower degree	-0.20***	-0.19***	-0.02	-0.01
Class of degree unknown	-0.28***	-0.26***	-0.07	-0.06
New university - Parents' education: compulsory		-0.01		0.10
New university - Parents' education: secondary		-0.04		0.01
New university - Parents' education: one HE		-0.13		0.03
New university - Parents' education: unknown		0.13		-0.03
College - Parents' education: compulsory		-0.08		0.11
College - Parents' education: secondary		-0.21		-0.17
College - Parents' education: one HE		0.07		0.01
College - Parents' education: unknown		0.28		0.21
New university - Entry age 21-24		-0.05		0.16*
New university - Entry age 25-		0.12		-0.01
New university - Entry age unknown		-0.38*		0.19
College - Entry age 21-24		-0.11		0.02
College - Entry age 25-		-0.03		0.22**
College - Entry age unknown		-0.30		0.10
R Square	.149	.161	.092	.107
Adjusted R Square	.127	.126	.074	.079

Appendix VI: The HESA First Destination Survey

For testing some of the findings from CHERI but mainly to gain information on the different ethnic groups additional analysis on the HESA Student and First Destination Survey in 1995 was conducted. Out of this population the 211,581 full-time or sandwich course students were selected for the purposes of the ethnicity-analyses.

Distribution of 1995 Graduates by Ethnicity from HESA

	Males	Females	Total
White	55866	61513	117379
Black Caribbean	495	911	1406
Black African	860	733	1593
Black other	209	303	512
Indian	2150	2062	4212
Pakistani	958	708	1666
Bangladeshi	231	115	346
Chinese	1837	1443	3280
Other Asian	947	785	1732
Other	1266	1250	2516
Information refused	5825	5421	11246
Not known	34191	31502	65693
Total	104835	106746	211581

As indicators of employment success two measures from the First Destination Survey could be used.

- (1) Labour market positions of the graduate 6 months after graduation (Working / Study or training / Seeking employment or training / Seeking employment or training + some other activity / Not available for employment)
- (2) being in a graduate job 6 months after graduation, as it is defined in the Warwick study

Appendix VII: Educational and Employment Differences by Ethnicity

(based on HESA data)

VII./1. Educational differences between ethnic minority and white graduates. Summary table.

(+): significantly higher proportion than among whites

(-): significantly lower proportion than among whites

	Non-traditional entry qualification	A Lower levels	New university or college	Lower than upper second degree	Non-vocational subjects	Late-entry graduates
Black Caribbean	Men (+) Women (+)	Men (+) Women (+)	Men (+) Women (+)		Men (+) Women (+)	Men (+) Women (+)
Black African	Men (+) Women (+)	Men (+) Women (+)	Men (+) Women (+)	Men (+) Women (+)		Men (+) Women (+)
Black other	Men (+) Women (+)	Men (+) Women (+)	Men (+) Women (+)		Men (+) Women (+)	Men (+) Women (+)
Indian	Women (+)	Men (+) Women (+)	Men (+) Women (+)			Men (-) Women (-)
Pakistani	Men (+) Women (+)	Men (+) Women (+)	Men (+) Women (+)			Men (-) Women (-)
Bangladeshi			Men (+) Women (+)			Men (-) Women (-)
Chinese	Men (+) Women (+)		Men (-) Women (-)			Men (+)
Other Asian	Men (+) Women (+)	Men (-) Women (-)	Men (-) Women (-)			Men (+)
Other	Men (+) Women (+)		Men (+) Women (+)	Men (+) Women (+)		Men (+)

VII./2. Employment differences between ethnic minority and white graduates – when educational factors are controlled for. Summary table.

(+): significantly higher proportion than among whites

(-): significantly lower proportion than among whites

	Seeking employment	In a non-graduate or graduate track job	In a non-graduate job
Black Caribbean	Women (+)		Women (-)
Black African	Men (+) Women (+)		Women (+)
Black other	Men (+) Women (+)	Women (-)	Women (-)
Indian	Men (+) Women (+)		
Pakistani	Men (+) Women (+)		
Bangladeshi	Men (+) Women (+)*	Men (+)	
Chinese	Men (+)* Women (+)	Men (-) Women (-)	Men (-)
Other Asian	Women (+)*		
Other	Men (+) Women (+)		

*: Disadvantage not significant if we assume everybody studying or participating in training rather than working is happy with this situation, and therefore further study is a positive outcome of higher education studies in every case.

Appendix VIII: Characteristics of the Interviewees

(The names listed are pseudonyms.)

Annett was born in 1963. She is White British. His father had A levels, her mother had O levels. They were running a pub together. Annett studied International hospitality management in a post-1992 university.

Anthony was born in 1973. His mother is English, his father was Asian. His father had a medical degree and worked as a doctor. His mother did A levels and was working as a nurse. Anthony studied Computing in a pre-1992 university.

Bob was born in 1944. He is White British. His parents had compulsory education. Bob studied computing in a post-1992 university.

Catherine was born in 1972. She is White British. Her father was an undertaker, her mother a florist. Both her parents had compulsory schooling and a vocational diploma. Catherine went to a pre-1992 university and studied Geography.

Clara was born in 1974. She is White British. Her father worked as a contractor in the building industry and had vocational trade qualification. Her mother had O levels and was a housewife. Clara studied Business information technology in a post-1992 university.

David was born in 1973. He is White British Both of his parents had compulsory schooling. David went to a pre-1992 university and studied Transport management.

Fizar was born in 1971. She is Asian. Her father had a HE degree and had a professional job. Her mother had secondary schooling. Fizar studied Management in a pre-1992 university.

George was born in 1970 to Indian parents. His father worked as an engineer (although had teacher qualification from India). His mother had compulsory schooling only and worked as a supervisor of catering and cleaning for a group of schools. George studied Business and technology in a new university.

Joan was born in 1958. She is White British. Her father was a bank manager, her mother was a housewife. Joan went to a pre-1992 university and studied Art history.

Joseph was born in 1970. He is White British. His father held an HE degree, his mother did A levels. Joseph studied Product design in a college.

Joshua was born in 1970. He defines himself as White British – Welsh. His father: worked in the finance sector (held an HE degree). His mother was a teacher. Joshua studied History and philosophy in a new university then did a legal practice course.

Kate was born in 1972. She is White British. Her parents had completed compulsory education. Kate studied Psychology in an old university.

Linda was born in 1973. She defined herself as “white other”. Her father had compulsory schooling, her mother went to secondary school. She went to an old university and studied Classics.

Paul was born in 1964. His father was Chinese, his mother was Dutch. His father was a university lecturer, his mother had upper secondary education and stayed at home with the children. Paul finished his PGCE in 1995 in a new university.

Sally was born in 1953. She is White British. Her father was a self-employed builder. Her mother did clerical work. They both had compulsory schooling. Sally studied Tourism management in a college.

Shelly was born in 1961. She is White British. Her parents completed compulsory education. Her father was a member of the armed forces, her mother did clerical work. Shelly studied Computer science in an old university.

Sunil was born in 1971. He is Indian. Both his parents had compulsory schooling only. His father worked in textiles factory labouring, his mother was a homemaker, sewing. He studied Geography and Environmental Studies in a new university then did a PGCE.

Susanne was born in 1955. She is White British. Her father was an accountant. Her mother had compulsory education and worked as a social worker. Susanne studied Environmental science in an old university.

Tanya was born in 1950. She is White British. Her father was a bank manager with compulsory schooling and several banking qualifications. Her mother completed compulsory schooling and held a Higher National Certificate. She had secretarial jobs. Tanya studied Business studies and finance in a post-1992 university.

Terry was born in 1959. She is White British. Her father had a diploma and worked as a civil servant. Her mother had a HE degree. Terry studied Economic and social history in a pre-1992 university.