

Electronic Supplementary Material 1 for

Ertl, B., Hartmann, F. G., & Wunderlich, A. (2023). Stability of Vocational Interests During University Studies. *Journal of Individual Differences*. <https://doi.org/10.1027/1614-0001/a000392>

Supplement E1: Sample of the study with respect to gender and study area.

Subject area		Gender		Total
		male	female	
STEM-L		1319	346	1665
STEM-M		513	992	1505
MED		117	242	359
ECO		262	416	678
Edu		41	370	411
Lang		190	1069	1259
Total		2442	3435	5877

Supplement E2: Ns, Means and Standard deviations for the values at wave 1 and wave 9 for the sample of the study

Gender		N	Mean	Std. Deviation
male	Realistic Interests Wave 1	2440	3.252	0.930
	Realistic Interests Wave 9	2441	3.335	0.917
	Investigative Interests Wave 1	2441	3.348	0.851
	Investigative Interests Wave 9	2441	3.270	0.879
	Artistic Interests Wave 1	2442	2.383	0.834
	Artistic Interests Wave 9	2442	2.271	0.832
	Social Interests Wave 1	2441	3.230	0.875
	Social Interests Wave 9	2439	3.138	0.826
	Enterprising Interests Wave 1	2442	3.363	0.743
	Enterprising Interests Wave 9	2442	3.110	0.750
	Conventional Interests Wave 1	2442	2.677	0.764
	Conventional Interests Wave 9	2442	2.606	0.799
	Congruence (Wave 9)	1801	0.902	0.330
	Profile correlation (z-standardized)	2442	0.981	0.550
	Study persistence initial course	2442	0.636	0.481
female	Realistic Interests Wave 1	3434	2.609	0.819
	Realistic Interests Wave 9	3433	2.728	0.831
	Investigative Interests Wave 1	3433	3.039	0.937
	Investigative Interests Wave 9	3434	2.864	0.919
	Artistic Interests Wave 1	3434	3.155	0.948
	Artistic Interests Wave 9	3435	2.954	0.966
	Social Interests Wave 1	3434	3.894	0.809
	Social Interests Wave 9	3433	3.758	0.800
	Enterprising Interests Wave 1	3434	3.404	0.719
	Enterprising Interests Wave 9	3435	3.055	0.738
	Conventional Interests Wave 1	3432	2.817	0.784
	Conventional Interests Wave 9	3434	2.781	0.809
	Congruence (Wave 9)	2937	0.816	0.321
	Profile correlation (z-standardized)	3434	0.988	0.566
	Study persistence initial course	3435	0.636	0.481

Supplement E3a: Effect sizes for the differences between the correlations of the different samples for the different dimensions

Dimension	Sample 1	Sample 2	Corr. 1	Corr. 2	Cohen's q^a	Effect size^b
Realistic	Total	Male	.647	.638	.015	-
	Total	Female	.647	.571	.121	small
	Male	Female	.638	.571	.106	small
Investigative	Total	Male	.641	.578	.100	small
	Total	Female	.641	.659	.031	-
	Male	Female	.578	.659	.132	small
Artistic	Total	Male	.715	.636	.146	small
	Total	Female	.715	.692	.046	-
	Male	Female	.636	.692	.100	small
Social	Total	Male	.655	.610	.075	-
	Total	Female	.655	.600	.091	-
	Male	Female	.610	.600	.016	-
Enterprising	Total	Male	.499	.521	.030	-
	Total	Female	.499	.486	.017	-
	Male	Female	.521	.486	.047	-
Conventional	Total	Male	.485	.507	.029	-
	Total	Female	.485	.461	.031	-
	Male	Female	.507	.461	.060	-

Note: ^a: Non-directional Cohen's q;

^b: Effect sizes according to Cohen's Thresholds: small effect > .1, medium effect >.3, large effect >.5

Supplement E3b: Effect sizes for the differences between the correlations of the different dimensions for the total sample, male and female students

Sample	Dimension 1	Dimension 2	Corr. 1	Corr. 2	Cohen's q ^a	Effect size ^b
Total	Realistic	Investigative	.647	.641	.010	-
	Realistic	Artistic	.647	.715	.127	small
	Realistic	Social	.647	.655	.014	-
	Realistic	Enterprising	.647	.499	.222	small
	Realistic	Conventional	.647	.485	.241	small
	Investigative	Artistic	.641	.715	.137	small
	Investigative	Social	.641	.655	.024	-
	Investigative	Enterprising	.641	.499	.212	small
	Investigative	Conventional	.641	.485	.230	small
	Artistic	Social	.715	.655	.113	small
	Artistic	Enterprising	.715	.499	.349	medium
	Artistic	Conventional	.715	.485	.368	medium
	Social	Enterprising	.655	.499	.236	small
	Social	Conventional	.655	.485	.255	small
	Enterprising	Conventional	.499	.485	.018	-
Male	Realistic	Investigative	.638	.578	.095	-
	Realistic	Artistic	.638	.636	.003	-
	Realistic	Social	.638	.610	.046	-
	Realistic	Enterprising	.638	.521	.177	small
	Realistic	Conventional	.638	.507	.196	small
	Investigative	Artistic	.578	.636	.092	-
	Investigative	Social	.578	.610	.049	-
	Investigative	Enterprising	.578	.521	.082	-
	Investigative	Conventional	.578	.507	.101	small
	Artistic	Social	.636	.610	.043	-
	Artistic	Enterprising	.636	.521	.174	small
	Artistic	Conventional	.636	.507	.193	small
	Social	Enterprising	.610	.521	.131	small
	Social	Conventional	.610	.507	.150	small
	Enterprising	Conventional	.521	.507	.019	-
Female	Realistic	Investigative	.571	.659	.142	small
	Realistic	Artistic	.571	.692	.203	small
	Realistic	Social	.571	.600	.044	-
	Realistic	Enterprising	.571	.486	.118	small
	Realistic	Conventional	.571	.461	.150	small
	Investigative	Artistic	.659	.692	.061	-
	Investigative	Social	.659	.600	.098	-
	Investigative	Enterprising	.659	.486	.260	small
	Investigative	Conventional	.659	.461	.292	small
	Artistic	Social	.692	.600	.159	small
	Artistic	Enterprising	.692	.486	.321	medium
	Artistic	Conventional	.692	.461	.353	medium
	Social	Enterprising	.600	.486	.162	small
	Social	Conventional	.600	.461	.195	small
	Enterprising	Conventional	.486	.461	.032	-

Note: ^a: Non-directional Cohen's q;

^b: Effect sizes according to Cohen's Thresholds: small effect > .1, medium effect > .3, large effect > .5

Supplement E3c: Effect sizes for the differences between the correlations of the different dimensions for male students

Area	Dimension 1	Dimension 2	Corr. 1	Corr. 2	Cohen's q ^a	Effect size ^b
STEM-L	Realistic	Investigative	.547	.475	.098	-
	Realistic	Artistic	.547	.607	.090	-
	Realistic	Social	.547	.536	.016	-
	Realistic	Enterprising	.547	.502	.062	-
	Realistic	Conventional	.547	.444	.137	small
	Investigative	Artistic	.475	.607	.188	small
	Investigative	Social	.475	.536	.082	-
	Investigative	Enterprising	.475	.502	.035	-
	Investigative	Conventional	.475	.444	.039	-
	Artistic	Social	.607	.536	.106	small
	Artistic	Enterprising	.607	.502	.152	small
	Artistic	Conventional	.607	.444	.227	small
	Social	Enterprising	.536	.502	.047	-
	Social	Conventional	.536	.444	.121	small
	Enterprising	Conventional	.502	.444	.075	-
STEM-M	Realistic	Investigative	.583	.628	.071	-
	Realistic	Artistic	.583	.601	.028	-
	Realistic	Social	.583	.539	.064	-
	Realistic	Enterprising	.583	.502	.115	small
	Realistic	Conventional	.583	.547	.053	-
	Investigative	Artistic	.628	.601	.043	-
	Investigative	Social	.628	.539	.135	small
	Investigative	Enterprising	.628	.502	.186	small
	Investigative	Conventional	.628	.547	.124	small
	Artistic	Social	.601	.539	.092	-
	Artistic	Enterprising	.601	.502	.143	small
	Artistic	Conventional	.601	.547	.081	-
	Social	Enterprising	.539	.502	.051	-
	Social	Conventional	.539	.547	.011	-
	Enterprising	Conventional	.502	.547	.062	-
Med	Realistic	Investigative	.499	.427	.092	-
	Realistic	Artistic	.499	.577	.110	small
	Realistic	Social	.499	.480	.025	-
	Realistic	Enterprising	.499	.544	.062	-
	Realistic	Conventional	.499	.600	.145	small
	Investigative	Artistic	.427	.577	.202	small
	Investigative	Social	.427	.480	.067	-
	Investigative	Enterprising	.427	.544	.154	small
	Investigative	Conventional	.427	.600	.237	small
	Artistic	Social	.577	.480	.135	small
	Artistic	Enterprising	.577	.544	.048	-
	Artistic	Conventional	.577	.600	.035	-
	Social	Enterprising	.480	.544	.087	-
	Social	Conventional	.480	.600	.170	small
	Enterprising	Conventional	.544	.600	.083	-

Eco	Realistic	Investigative	.566	.470	.132	small
	Realistic	Artistic	.566	.588	.033	-
	Realistic	Social	.566	.557	.013	-
	Realistic	Enterprising	.566	.502	.090	-
	Realistic	Conventional	.566	.512	.076	-
	Investigative	Artistic	.470	.588	.165	small
	Investigative	Social	.470	.557	.118	small
	Investigative	Enterprising	.470	.502	.042	-
	Investigative	Conventional	.470	.512	.055	-
	Artistic	Social	.588	.557	.046	-
	Artistic	Enterprising	.588	.502	.123	small
	Artistic	Conventional	.588	.512	.109	small
	Social	Enterprising	.557	.502	.076	-
	Social	Conventional	.557	.512	.063	-
	Enterprising	Conventional	.502	.512	.013	-
Edu^c	Realistic	Investigative	.569	.364	.265	small
	Realistic	Artistic	.569	.500	.097	-
	Realistic	Social	.569	.046	.600	large
	Realistic	Enterprising	.569	.347	.284	small
	Realistic	Conventional	.569	.658	.143	small
	Investigative	Artistic	.364	.500	.168	small
	Investigative	Social	.364	.046	.335	medium
	Investigative	Enterprising	.364	.347	.019	-
	Investigative	Conventional	.364	.658	.408	medium
	Artistic	Social	.500	.046	.503	large
	Artistic	Enterprising	.500	.347	.187	small
	Artistic	Conventional	.500	.658	.240	small
	Social	Enterprising	.046	.347	.316	medium
	Social	Conventional	.046	.658	.743	large
	Enterprising	Conventional	.347	.658	.427	medium
Lang	Realistic	Investigative	.589	.593	.006	-
	Realistic	Artistic	.589	.673	.140	small
	Realistic	Social	.589	.499	.128	small
	Realistic	Enterprising	.589	.453	.188	small
	Realistic	Conventional	.589	.561	.042	-
	Investigative	Artistic	.593	.673	.134	small
	Investigative	Social	.593	.499	.134	small
	Investigative	Enterprising	.593	.453	.194	small
	Investigative	Conventional	.593	.561	.048	-
	Artistic	Social	.673	.499	.268	small
	Artistic	Enterprising	.673	.453	.328	medium
	Artistic	Conventional	.673	.561	.182	small
	Social	Enterprising	.499	.453	.060	-
	Social	Conventional	.499	.561	.086	-
	Enterprising	Conventional	.453	.561	.146	small

Note: ^a: Non-directional Cohen's q ;

^b: Effect sizes according to Cohen's Thresholds: small effect $> .1$, medium effect $> .3$, large effect $> .5$

^c: We do not consider male students of education in this analysis because of the low sub-sample size.

Supplement E3d: Effect sizes for the differences between the correlations of the different dimensions for female students

Area	Dimension 1	Dimension 2	Corr. 1	Corr. 2	Cohen's q^a	Effect size ^b
STEM-L	Realistic	Investigative	.513	.542	.040	-
	Realistic	Artistic	.513	.587	.106	small
	Realistic	Social	.513	.563	.070	-
	Realistic	Enterprising	.513	.511	.003	-
	Realistic	Conventional	.513	.485	.037	-
	Investigative	Artistic	.542	.587	.066	-
	Investigative	Social	.542	.563	.030	-
	Investigative	Enterprising	.542	.511	.043	-
	Investigative	Conventional	.542	.485	.077	-
	Artistic	Social	.587	.563	.036	-
	Artistic	Enterprising	.587	.511	.109	small
	Artistic	Conventional	.587	.485	.144	small
	Social	Enterprising	.563	.511	.073	-
	Social	Conventional	.563	.485	.108	small
	Enterprising	Conventional	.511	.485	.035	-
STEM-M	Realistic	Investigative	.503	.654	.229	small
	Realistic	Artistic	.503	.676	.268	small
	Realistic	Social	.503	.563	.084	-
	Realistic	Enterprising	.503	.489	.019	-
	Realistic	Conventional	.503	.462	.053	-
	Investigative	Artistic	.654	.676	.039	-
	Investigative	Social	.654	.563	.145	small
	Investigative	Enterprising	.654	.489	.248	small
	Investigative	Conventional	.654	.462	.282	small
	Artistic	Social	.676	.563	.184	small
	Artistic	Enterprising	.676	.489	.287	small
	Artistic	Conventional	.676	.462	.322	medium
	Social	Enterprising	.563	.489	.102	small
	Social	Conventional	.563	.462	.137	small
	Enterprising	Conventional	.489	.462	.035	-
Med	Realistic	Investigative	.584	.490	.132	small
	Realistic	Artistic	.584	.637	.085	-
	Realistic	Social	.584	.405	.239	small
	Realistic	Enterprising	.584	.502	.117	small
	Realistic	Conventional	.584	.494	.127	small
	Investigative	Artistic	.490	.637	.217	small
	Investigative	Social	.490	.405	.106	small
	Investigative	Enterprising	.490	.502	.016	-
	Investigative	Conventional	.490	.494	.005	-
	Artistic	Social	.637	.405	.323	medium
	Artistic	Enterprising	.637	.502	.201	small
	Artistic	Conventional	.637	.494	.212	small
	Social	Enterprising	.405	.502	.122	small
	Social	Conventional	.405	.494	.112	small
	Enterprising	Conventional	.502	.494	.011	-

Eco	Realistic	Investigative	.484	.516	.043	-
	Realistic	Artistic	.484	.680	.301	medium
	Realistic	Social	.484	.520	.048	-
	Realistic	Enterprising	.484	.480	.005	-
	Realistic	Conventional	.484	.440	.056	-
	Investigative	Artistic	.516	.680	.258	small
	Investigative	Social	.516	.520	.005	-
	Investigative	Enterprising	.516	.480	.048	-
	Investigative	Conventional	.516	.440	.099	-
	Artistic	Social	.680	.520	.253	small
	Artistic	Enterprising	.680	.480	.306	medium
	Artistic	Conventional	.680	.440	.357	medium
	Social	Enterprising	.520	.480	.053	-
	Social	Conventional	.520	.440	.104	small
	Enterprising	Conventional	.480	.440	.051	-
Edu	Realistic	Investigative	.527	.487	.054	-
	Realistic	Artistic	.527	.677	.238	small
	Realistic	Social	.527	.406	.155	small
	Realistic	Enterprising	.527	.415	.144	small
	Realistic	Conventional	.527	.437	.117	small
	Investigative	Artistic	.487	.677	.291	small
	Investigative	Social	.487	.406	.101	small
	Investigative	Enterprising	.487	.415	.090	-
	Investigative	Conventional	.487	.437	.064	-
	Artistic	Social	.677	.406	.393	medium
	Artistic	Enterprising	.677	.415	.382	medium
	Artistic	Conventional	.677	.437	.355	medium
	Social	Enterprising	.406	.415	.011	-
	Social	Conventional	.406	.437	.038	-
	Enterprising	Conventional	.415	.437	.027	-
Lang	Realistic	Investigative	.542	.530	.017	-
	Realistic	Artistic	.542	.660	.186	small
	Realistic	Social	.542	.483	.080	-
	Realistic	Enterprising	.542	.444	.130	small
	Realistic	Conventional	.542	.426	.152	small
	Investigative	Artistic	.530	.660	.203	small
	Investigative	Social	.530	.483	.063	-
	Investigative	Enterprising	.530	.444	.113	small
	Investigative	Conventional	.530	.426	.135	small
	Artistic	Social	.660	.483	.266	small
	Artistic	Enterprising	.660	.444	.316	medium
	Artistic	Conventional	.660	.426	.338	medium
	Social	Enterprising	.483	.444	.050	-
	Social	Conventional	.483	.426	.072	-
	Enterprising	Conventional	.444	.426	.022	-

Note: ^a: Non-directional Cohen's q ;

^b: Effect sizes according to Cohen's Thresholds: small effect $> .1$, medium effect $> .3$, large effect $> .5$

Supplement E3e: Effect sizes for the differences between the correlations of the different subject areas for male students. This table is just for comparability. We do not consider male students of education in this analysis because of the low sub-sample size. Supplement E3f shows the comparisons without male students of education.

Dimension	Area 1	Area 2	Corr. 1	Corr. 2	Cohen's q ^a	Effect size ^b
Realistic	STEM-L	STEM-M	.547	.583	.053	-
	STEM-L	Life	.547	.499	.066	-
	STEM-L	Eco	.547	.566	.028	-
	STEM-L	Edu	.547	.569	.032	-
	STEM-L	Lang	.547	.589	.062	-
	STEM-M	Life	.583	.499	.119	small
	STEM-M	Eco	.583	.566	.025	-
	STEM-M	Edu	.583	.569	.021	-
	STEM-M	Lang	.583	.589	.009	-
	Life	Eco	.499	.566	.094	-
	Life	Edu	.499	.569	.098	-
	Life	Lang	.499	.589	.128	small
	Eco	Edu	.566	.569	.004	-
	Eco	Lang	.566	.589	.035	-
	Edu	Lang	.569	.589	.030	-
Investigative	STEM-L	STEM-M	.475	.628	.222	small
	STEM-L	Life	.475	.427	.060	-
	STEM-L	Eco	.475	.470	.006	-
	STEM-L	Edu	.475	.364	.135	small
	STEM-L	Lang	.475	.593	.166	small
	STEM-M	Life	.628	.427	.282	small
	STEM-M	Eco	.628	.470	.228	small
	STEM-M	Edu	.628	.364	.357	medium
	STEM-M	Lang	.628	.593	.056	-
	Life	Eco	.427	.470	.054	-
	Life	Edu	.427	.364	.075	-
	Life	Lang	.427	.593	.226	small
	Eco	Edu	.470	.364	.129	small
	Eco	Lang	.470	.593	.172	small
	Edu	Lang	.364	.593	.301	medium
Artistic	STEM-L	STEM-M	.607	.601	.009	-
	STEM-L	Life	.607	.577	.046	-
	STEM-L	Eco	.607	.588	.030	-
	STEM-L	Edu	.607	.500	.155	small
	STEM-L	Lang	.607	.673	.112	small
	STEM-M	Life	.601	.577	.037	-
	STEM-M	Eco	.601	.588	.020	-
	STEM-M	Edu	.601	.500	.145	small
	STEM-M	Lang	.601	.673	.121	small
	Life	Eco	.577	.588	.017	-
	Life	Edu	.577	.500	.109	small
	Life	Lang	.577	.673	.158	small
	Eco	Edu	.588	.500	.125	small
	Eco	Lang	.588	.673	.142	small

	Edu	Lang	.500	.673	.267	small
Social	STEM-L	STEM-M	.536	.539	.004	-
	STEM-L	Life	.536	.480	.076	-
	STEM-L	Eco	.536	.557	.030	-
	STEM-L	Edu	.536	.046	.552	large
	STEM-L	Lang	.536	.499	.051	-
	STEM-M	Life	.539	.480	.080	-
	STEM-M	Eco	.539	.557	.026	-
	STEM-M	Edu	.539	.046	.557	large
	STEM-M	Lang	.539	.499	.055	-
	Life	Eco	.480	.557	.105	small
	Life	Edu	.480	.046	.477	medium
	Life	Lang	.480	.499	.025	-
	Eco	Edu	.557	.046	.582	large
	Eco	Lang	.557	.499	.080	-
	Edu	Lang	.046	.499	.502	large
Enterprising	STEM-L	STEM-M	.502	.502	.000	-
	STEM-L	Life	.502	.544	.058	-
	STEM-L	Eco	.502	.502	.000	-
	STEM-L	Edu	.502	.347	.190	small
	STEM-L	Lang	.502	.453	.064	-
	STEM-M	Life	.502	.544	.058	-
	STEM-M	Eco	.502	.502	.000	-
	STEM-M	Edu	.502	.347	.190	small
	STEM-M	Lang	.502	.453	.064	-
	Life	Eco	.544	.502	.058	-
	Life	Edu	.544	.347	.248	small
	Life	Lang	.544	.453	.121	small
	Eco	Edu	.502	.347	.190	small
	Eco	Lang	.502	.453	.064	-
	Edu	Lang	.347	.453	.126	small
Conventional	STEM-L	STEM-M	.444	.547	.137	small
	STEM-L	Life	.444	.600	.216	small
	STEM-L	Eco	.444	.512	.088	-
	STEM-L	Edu	.444	.658	.312	medium
	STEM-L	Lang	.444	.561	.157	small
	STEM-M	Life	.547	.600	.079	-
	STEM-M	Eco	.547	.512	.049	-
	STEM-M	Edu	.547	.658	.175	small
	STEM-M	Lang	.547	.561	.020	-
	Life	Eco	.600	.512	.128	small
	Life	Edu	.600	.658	.096	-
	Life	Lang	.600	.561	.059	-
	Eco	Edu	.512	.658	.224	small
	Eco	Lang	.512	.561	.069	-
	Edu	Lang	.658	.561	.155	small

Note: ^a: Non-directional Cohen's q ;

^b: Effect sizes according to Cohen's Thresholds: small effect $> .1$, medium effect $> .3$, large effect $> .5$

Supplement E3f: Effect sizes for the differences between the correlations of the different subject areas for male students excluding the area of education

Dimension	Area 1	Area 2	Corr. 1	Corr. 2	Cohen's q^a	Effect size^b
Realistic	STEM-L	STEM-M	.547	.583	.053	-
	STEM-L	Life	.547	.499	.066	-
	STEM-L	Eco	.547	.566	.028	-
	STEM-L	Lang	.547	.589	.062	-
	STEM-M	Life	.583	.499	.119	small
	STEM-M	Eco	.583	.566	.025	-
	STEM-M	Lang	.583	.589	.009	-
	Life	Eco	.499	.566	.094	-
	Life	Lang	.499	.589	.128	small
	Eco	Lang	.566	.589	.035	-
Investigative	STEM-L	STEM-M	.475	.628	.222	small
	STEM-L	Life	.475	.427	.060	-
	STEM-L	Eco	.475	.470	.006	-
	STEM-L	Lang	.475	.593	.166	small
	STEM-M	Life	.628	.427	.282	small
	STEM-M	Eco	.628	.470	.228	small
	STEM-M	Lang	.628	.593	.056	-
	Life	Eco	.427	.470	.054	-
	Life	Lang	.427	.593	.226	small
	Eco	Lang	.470	.593	.172	small
Artistic	STEM-L	STEM-M	.607	.601	.009	-
	STEM-L	Life	.607	.577	.046	-
	STEM-L	Eco	.607	.588	.030	-
	STEM-L	Lang	.607	.673	.112	small
	STEM-M	Life	.601	.577	.037	-
	STEM-M	Eco	.601	.588	.020	-
	STEM-M	Lang	.601	.673	.121	small
	Life	Eco	.577	.588	.017	-
	Life	Lang	.577	.673	.158	small
	Eco	Lang	.588	.673	.142	small
Social	STEM-L	STEM-M	.536	.539	.004	-
	STEM-L	Life	.536	.480	.076	-
	STEM-L	Eco	.536	.557	.030	-
	STEM-L	Lang	.536	.499	.051	-
	STEM-M	Life	.539	.480	.080	-
	STEM-M	Eco	.539	.557	.026	-
	STEM-M	Lang	.539	.499	.055	-
	Life	Eco	.480	.557	.105	small
	Life	Lang	.480	.499	.025	-
	Eco	Lang	.557	.499	.080	-
Enterprising	STEM-L	STEM-M	.502	.502	.000	-
	STEM-L	Life	.502	.544	.058	-
	STEM-L	Eco	.502	.502	.000	-
	STEM-L	Lang	.502	.453	.064	-
	STEM-M	Life	.502	.544	.058	-

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	STEM-M	Eco	.502	.502	.000	-
	STEM-M	Lang	.502	.453	.064	-
	Life	Eco	.544	.502	.058	-
	Life	Lang	.544	.453	.121	small
	Eco	Lang	.502	.453	.064	-
Conventional	STEM-L	STEM-M	.444	.547	.137	small
	STEM-L	Life	.444	.600	.216	small
	STEM-L	Eco	.444	.512	.088	-
	STEM-L	Lang	.444	.561	.157	small
	STEM-M	Life	.547	.600	.079	-
	STEM-M	Eco	.547	.512	.049	-
	STEM-M	Lang	.547	.561	.020	-
	Life	Eco	.600	.512	.128	small
	Life	Lang	.600	.561	.059	-
	Eco	Lang	.512	.561	.069	-

Note: ^a: Non-directional Cohen's q ;

^b: Effect sizes according to Cohen's Thresholds: small effect $> .1$, medium effect $> .3$, large effect $> .5$

Supplement E3g: Effect sizes for the differences between the correlations of the different subject areas for female students

Dimension	Area 1	Area 2	Corr. 1	Corr. 2	Cohen's q^a	Effect size ^b
Realistic	STEM-L	STEM-M	.513	.503	.013	-
	STEM-L	Life	.513	.584	.102	small
	STEM-L	Eco	.513	.484	.039	-
	STEM-L	Edu	.513	.527	.019	-
	STEM-L	Lang	.513	.542	.040	-
	STEM-M	Life	.503	.584	.115	small
	STEM-M	Eco	.503	.484	.025	-
	STEM-M	Edu	.503	.527	.033	-
	STEM-M	Lang	.503	.542	.054	-
	Life	Eco	.584	.484	.140	small
	Life	Edu	.584	.527	.083	-
	Life	Lang	.584	.542	.062	-
	Eco	Edu	.484	.527	.058	-
	Eco	Lang	.484	.542	.079	-
	Edu	Lang	.527	.542	.021	-
Investigative	STEM-L	STEM-M	.542	.654	.175	small
	STEM-L	Life	.542	.490	.071	-
	STEM-L	Eco	.542	.516	.036	-
	STEM-L	Edu	.542	.487	.075	-
	STEM-L	Lang	.542	.530	.017	-
	STEM-M	Life	.654	.490	.246	small
	STEM-M	Eco	.654	.516	.211	small
	STEM-M	Edu	.654	.487	.250	small
	STEM-M	Lang	.654	.530	.192	small
	Life	Eco	.490	.516	.035	-
	Life	Edu	.490	.487	.004	-
	Life	Lang	.490	.530	.054	-
	Eco	Edu	.516	.487	.039	-
	Eco	Lang	.516	.530	.019	-
	Edu	Lang	.487	.530	.058	-
Artistic	STEM-L	STEM-M	.587	.676	.149	small
	STEM-L	Life	.587	.637	.080	-
	STEM-L	Eco	.587	.680	.156	small
	STEM-L	Edu	.587	.677	.150	small
	STEM-L	Lang	.587	.660	.120	small
	STEM-M	Life	.676	.637	.069	-
	STEM-M	Eco	.676	.680	.007	-
	STEM-M	Edu	.676	.677	.002	-
	STEM-M	Lang	.676	.660	.029	-
	Life	Eco	.637	.680	.076	-
	Life	Edu	.637	.677	.070	-
	Life	Lang	.637	.660	.040	-
	Eco	Edu	.680	.677	.006	-
	Eco	Lang	.680	.660	.036	-
	Edu	Lang	.677	.660	.031	-

Social	STEM-L	STEM-M	.563	.563	.000	-
	STEM-L	Life	.563	.405	.208	small
	STEM-L	Eco	.563	.520	.061	-
	STEM-L	Edu	.563	.406	.206	small
	STEM-L	Lang	.563	.483	.110	small
	STEM-M	Life	.563	.405	.208	small
	STEM-M	Eco	.563	.520	.061	-
	STEM-M	Edu	.563	.406	.206	small
	STEM-M	Lang	.563	.483	.110	small
	Life	Eco	.405	.520	.147	small
	Life	Edu	.405	.406	.001	-
	Life	Lang	.405	.483	.097	-
	Eco	Edu	.520	.406	.146	small
	Eco	Lang	.520	.483	.049	-
	Edu	Lang	.406	.483	.096	-
	Enterprising	STEM-L	STEM-M	.511	.489	.029
STEM-L		Life	.511	.502	.012	-
STEM-L		Eco	.511	.480	.041	-
STEM-L		Edu	.511	.415	.122	small
STEM-L		Lang	.511	.444	.087	-
STEM-M		Life	.489	.502	.017	-
STEM-M		Eco	.489	.480	.012	-
STEM-M		Edu	.489	.415	.093	-
STEM-M		Lang	.489	.444	.058	-
Life		Eco	.502	.480	.029	-
Life		Edu	.502	.415	.110	small
Life		Lang	.502	.444	.075	-
Eco		Edu	.480	.415	.081	-
Eco		Lang	.480	.444	.046	-
Edu		Lang	.415	.444	.036	-
Conventional		STEM-L	STEM-M	.485	.462	.030
	STEM-L	Life	.485	.494	.012	-
	STEM-L	Eco	.485	.440	.057	-
	STEM-L	Edu	.485	.437	.061	-
	STEM-L	Lang	.485	.426	.075	-
	STEM-M	Life	.462	.494	.041	-
	STEM-M	Eco	.462	.440	.028	-
	STEM-M	Edu	.462	.437	.031	-
	STEM-M	Lang	.462	.426	.045	-
	Life	Eco	.494	.440	.069	-
	Life	Edu	.494	.437	.073	-
	Life	Lang	.494	.426	.086	-
	Eco	Edu	.440	.437	.004	-
	Eco	Lang	.440	.426	.017	-
	Edu	Lang	.437	.426	.014	-

Note: ^a: Non-directional Cohen's q ;

^b: Effect sizes according to Cohen's Thresholds: small effect $> .1$, medium effect $> .3$, large effect $> .5$

Supplement E3h: Effect sizes for the differences between the profile correlations of the different subject areas for male students. This table is just for comparability. We do not consider male students of education in this analysis because of the low sub-sample size. Supplement E3i shows the comparisons without male students of education.

Area 1	Area 2	Corr. 1	Corr. 2	Cohen's q ^a	Effect size ^b
STEM-L	STEM-M	.754	.743	.025	-
STEM-L	Life	.754	.812	-.151	small
STEM-L	Eco	.754	.747	.016	-
STEM-L	Edu	.754	.806	-.133	small
STEM-L	Lang	.754	.739	.034	-
STEM-M	Life	.743	.812	-.176	small
STEM-M	Eco	.743	.747	-.009	-
STEM-M	Edu	.743	.806	-.158	small
STEM-M	Lang	.743	.739	.009	-
Life	Eco	.812	.747	.167	small
Life	Edu	.812	.806	.017	-
Life	Lang	.812	.739	.185	small
Eco	Edu	.747	.806	-.149	small
Eco	Lang	.747	.739	.018	-
Edu	Lang	.806	.739	.167	small

Note: ^a: Non-directional Cohen's q;

^b: Effect sizes according to Cohen's Thresholds: small effect > .1, medium effect >.3, large effect >.5

Supplement E3i: Effect sizes for the differences between the profile correlations of the different subject areas for male students without education

Area 1	Area 2	Corr. 1	Corr. 2	Cohen's q ^a	Effect size ^b
STEM-L	STEM-M	.757	.743	.032	-
STEM-L	Life	.757	.812	-.144	small
STEM-L	Eco	.757	.747	.023	-
STEM-L	Lang	.757	.739	.041	-
STEM-M	Life	.743	.812	-.176	small
STEM-M	Eco	.743	.747	-.009	-
STEM-M	Lang	.743	.739	.009	-
Life	Eco	.812	.747	.167	small
Life	Lang	.812	.739	.185	small
Eco	Lang	.747	.739	.018	-

Note: ^a: Non-directional Cohen's q;

^b: Effect sizes according to Cohen's Thresholds: small effect > .1, medium effect >.3, large effect >.5

Supplement E3j: Effect sizes for the differences between the profile correlations of the different subject areas for female students

Area 1	Area 2	Corr. 1	Corr. 2	Cohen's q ^a	Effect size ^b
STEM-L	STEM-M	.679	.731	-.104	small
STEM-L	Life	.679	.826	-.348	medium
STEM-L	Eco	.679	.711	-.062	-
STEM-L	Edu	.679	.835	-.377	medium
STEM-L	Lang	.679	.776	-.208	small
STEM-M	Life	.731	.826	-.245	small
STEM-M	Eco	.731	.711	.042	-
STEM-M	Edu	.731	.835	-.274	small
STEM-M	Lang	.731	.776	-.104	small
Life	Eco	.826	.711	.286	small
Life	Edu	.826	.835	-.029	-
Life	Lang	.826	.776	.140	small
Eco	Edu	.711	.835	-.315	medium
Eco	Lang	.711	.776	-.146	small
STEM-L	STEM-M	.835	.776	.169	small

Note: ^a: Non-directional Cohen's q;

^b: Effect sizes according to Cohen's Thresholds: small effect > .1, medium effect >.3, large effect >.5

Supplement E3k: Effect sizes for the differences of the profile correlations between male and female students of the different subject areas

Area	Ref. 1	Ref. 2	Corr. 1	Corr. 2	Cohen's q ^a	Effect size ^b
STEM-L	Male	Female	.754	.679	.155	small
STEM-M	Male	Female	.743	.731	.026	-
Life	Male	Female	.812	.826	-.043	-
Eco	Male	Female	.747	.711	.077	-
Edu	Male	Female	.806	.835	-.089	-
Lang	Male	Female	.739	.776	-.087	-

Note: ^a: Non-directional Cohen's q;

^b: Effect sizes according to Cohen's Thresholds: small effect > .1, medium effect >.3, large effect >.5

Supplement E4: Overview on the model parameters for the analyses from 3 to 25 profiles including information about replicability of the best log-likelihood value (repl.), model fit indices (AIC, BIC, and Sample-size adjusted BIC), size of the biggest profile (Size), Entropy of the solution, the minimum for average latent profile probabilities, adjusted Lo-Mendell-Rubin Test (LMR), and bootstrapped likelihood ratio test (BLRT)

# Profiles	Repl.	AIC	BIC	SBIC	Size	Entropy	Min.	LMR	BLRT
3	Yes	79610.316	79783.965	79701.344	83.00 %	0.596	0.732	< .01	< .001
4	Yes	79516.143	79736.543	79631.678	80.00 %	0.614	0.651	> .1	< .001
5	Yes	79440.955	79708.107	79580.998	79.00 %	0.646	0.674	> .1	< .001
6	Yes	79372.834	79686.737	79537.385	72.35 %	0.629	0.635	> .1	< .001
7	Yes	79326.333	79686.989	79515.392	70.31 %	0.594	0.565	> .1	< .001
8	Yes	79281.718	79689.125	79475.284	71.31 %	0.629	0.578	> .1	< .001
9	Yes	79241.962	79696.12	79480.036	69.97 %	0.632	0.575	> .1	< .001
10	Yes	79215.787	79716.697	79478.368	69.47 %	0.644	0.579	> .1	< .001
11	Yes	79189.217	79736.879	79476.306	69.20 %	0.661	0.581	> .1	< .001
12	Yes	79163.698	79758.111	79475.294	68.40 %	0.666	0.578	> .1	< .001
13	No	79141.838	79783.003	79477.942	68.32 %	0.673	0.581	> .1	< .001
14	Yes	79122.355	79810.271	79482.967	67.67 %	0.674	0.579	> .1	< .001
15	No	79104.514	79839.182	79489.633	67.01 %	0.683	0.578	> .1	< .05
16	No	79086.069	79867.488	79475.696	67.18 %	0.682	0.583	> .1	< .001
17	No	79072.976	79901.148	79507.111	66.46 %	0.688	0.582	> .1	< .1
18	No	79054.301	79929.224	79512.944	66.17 %	0.678	0.581	> .1	< .001
19	No	79042.602	79964.276	79525.752	65.60 %	0.672	0.565	> .1	< .1
20	No	79033.022	80001.448	79540.68	65.48 %	0.682	0.576	> .1	< .1
21	No	79022.470	80037.648	79554.636	65.00 %	0.686	0.571	> .1	< .1
22	No	79013.759	80075.688	79570.432	58.13 %	0.657	0.510	> .1	> .1
23	No	79001.452	80110.133	79582.632	64.52 %	0.688	0.574	> .1	> .1
24	No	78995.210	80150.643	79600.898	61.38 %	0.679	0.563	> .1	> .1
25	No	78990.057	80192.241	79620.253	45.82 %	0.654	0.533	> .1	> .1

Supplement E5a: Standardized differences in interests between wave 1 and wave 9 for all students and separated for male and female students. Z-Scores.

	Realistic	Investigative	Artistic	Social	Enterprising	Conventional
Total	.000	.000	.000	.000	.000	.000
Male	-.027	.073	.071	.035	.076	-.026
Female	.019	-.052	-.051	-.025	-.054	.019

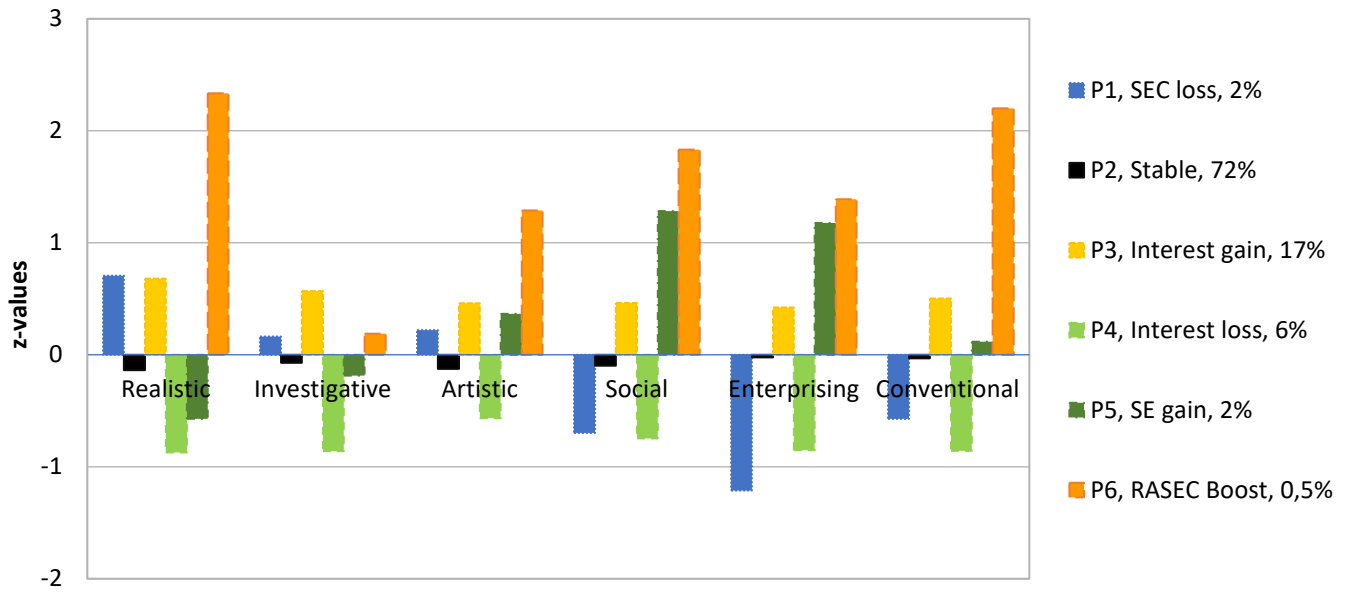
Supplement E5b: Absolute differences in interests between wave 1 and wave 9 for all students and separated for male and female students. Range: -4 for a maximum in decrease and 4 for a maximum in increase between wave 1 and wave 9.

	Realistic	Investigative	Artistic	Social	Enterprising	Conventional
Total	.104	-.135	-.164	-.118	-.309	-.050
Male	.083	-.078	-.111	-.092	-.253	-.071
Female	.119	-.175	-.201	-.136	-.349	-.035

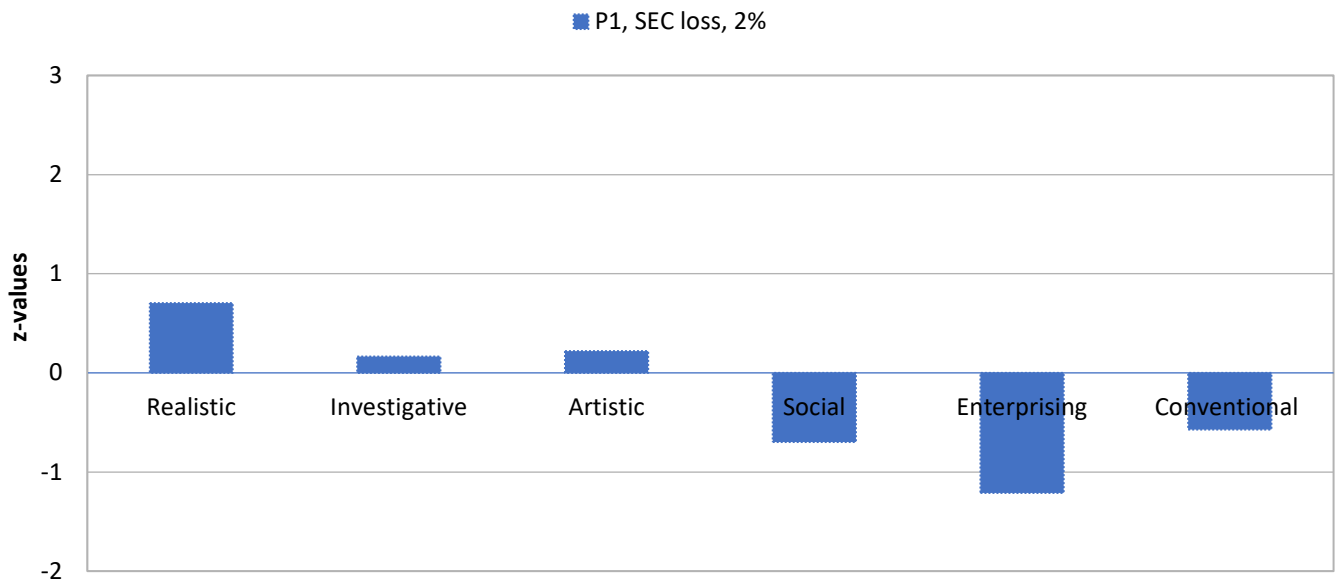
Supplement E5c: Means and standard deviations for the six interest dimensions at wave 1 and wave 9 for each profile.

		Realistic		Investigative		Artistic		Social		Enterprising		Conventional	
		<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>
Profile 1	Wave 1	2.460	0.859	2.981	1.003	2.817	0.988	4.132	0.719	4.145	0.597	3.043	0.846
SEC loss	Wave 9	3.463	0.925	3.110	0.989	2.912	0.920	3.202	0.834	2.522	0.611	2.272	0.755
Profile 2	Wave 1	2.911	0.919	3.185	0.898	2.866	0.969	3.657	0.871	3.400	0.701	2.769	0.753
Stable	Wave 9	2.887	0.880	2.977	0.902	2.608	0.945	3.459	0.855	3.057	0.717	2.676	0.783
Profile 3	Wave 1	2.622	0.866	2.946	0.918	2.631	0.966	3.360	0.921	3.191	0.735	2.511	0.741
I. Gain	Wave 9	3.481	0.865	3.416	0.925	2.959	1.005	3.735	0.862	3.306	0.751	3.005	0.828
Profile 4	Wave 1	3.242	0.899	3.581	0.892	3.140	0.997	4.078	0.802	3.788	0.653	3.319	0.787
I. Loss	Wave 9	2.499	0.842	2.575	0.837	2.409	0.966	3.207	0.851	2.621	0.681	2.320	0.736
Profile 5	Wave 1	3.263	0.958	3.421	0.959	2.606	1.058	2.751	0.790	2.740	0.678	2.725	0.855
SE gain	Wave 9	2.722	0.921	3.010	0.831	2.772	1.130	3.963	0.763	3.643	0.728	2.706	0.870
Profile 6	Wave 1	2.195	0.680	3.111	0.790	2.723	1.111	2.833	0.968	2.931	0.885	1.972	0.810
RASEC b.	Wave 9	4.222	0.595	3.056	0.916	3.597	0.748	4.153	0.722	3.681	0.764	3.847	0.694

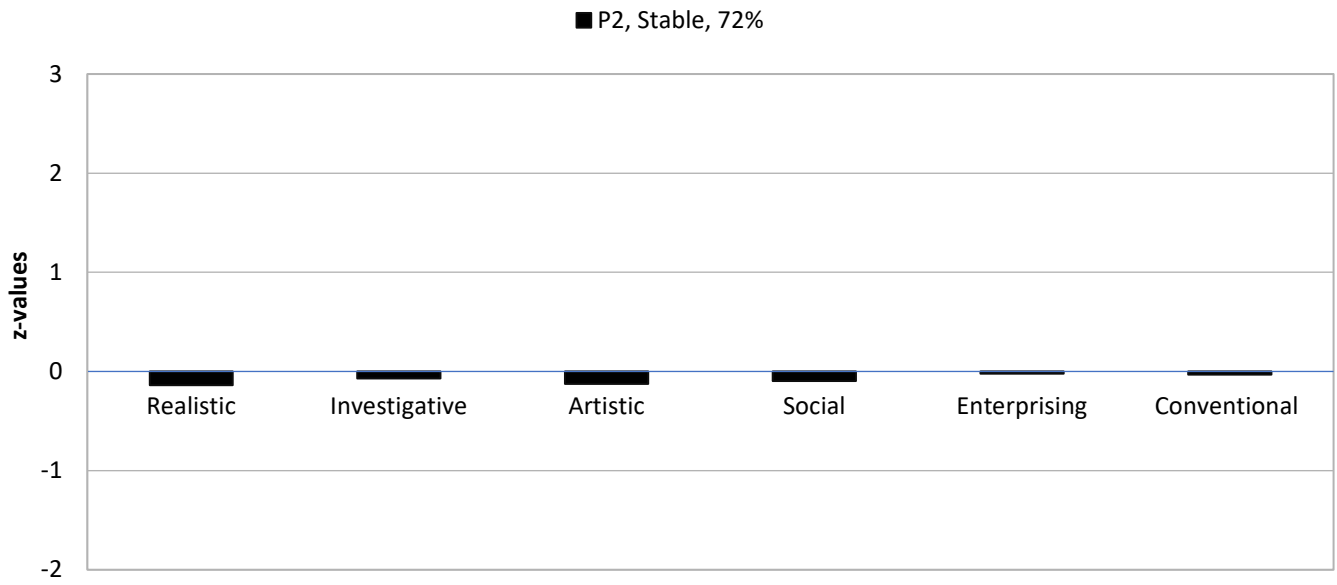
Supplement E5d: Bar-chart representation of the six profiles



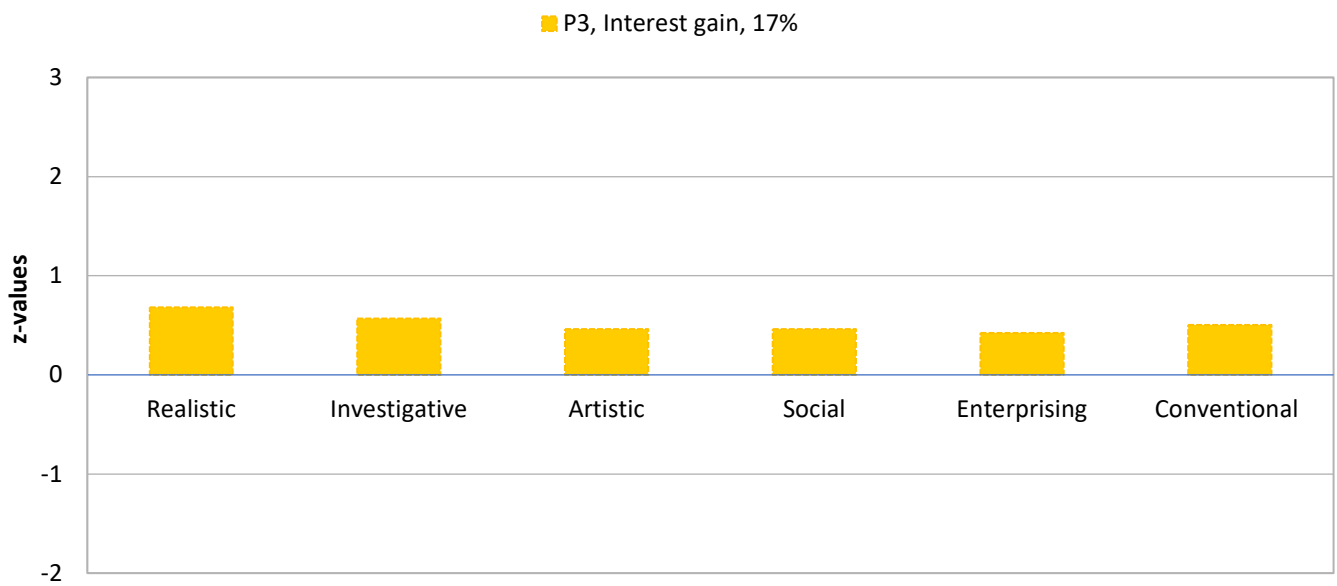
Supplement E5e: Bar-chart representation of profile 1: SEC loss



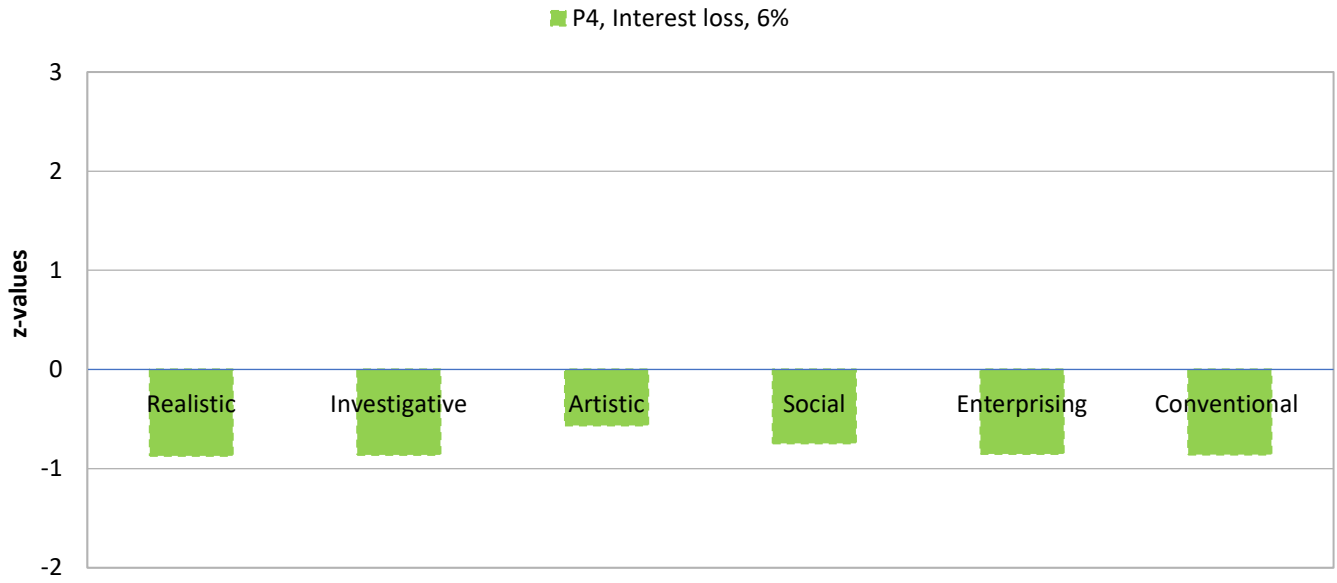
Supplement E5f: Bar-chart representation of profile 2: Stable



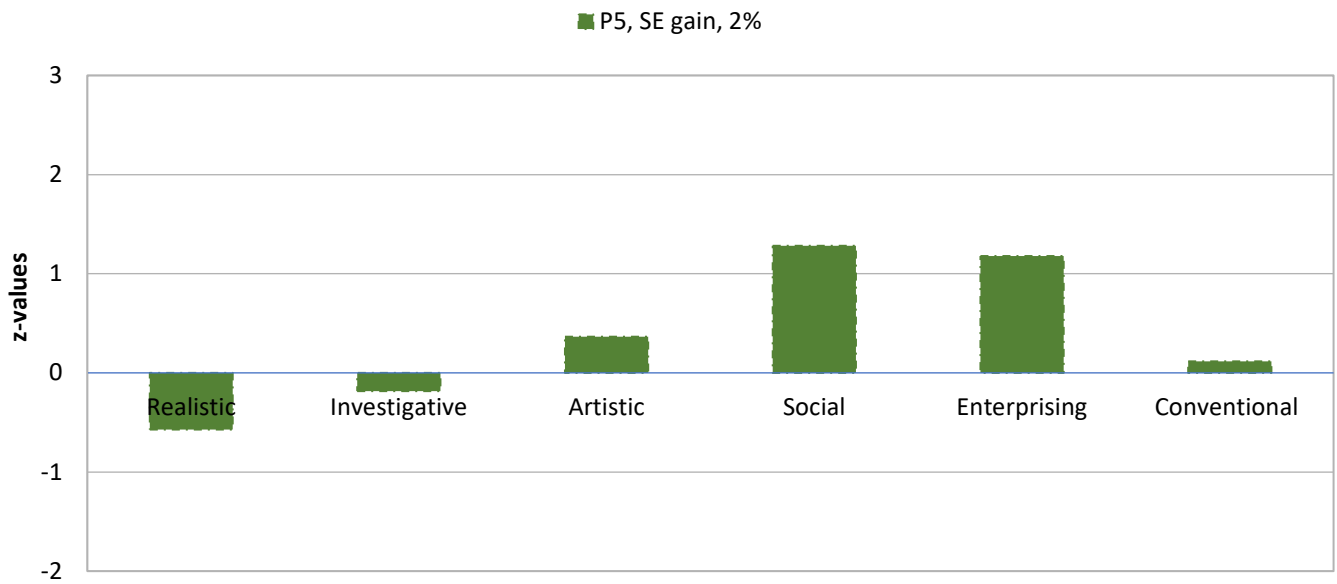
Supplement E5g: Bar-chart representation of profile 3: Interest gain



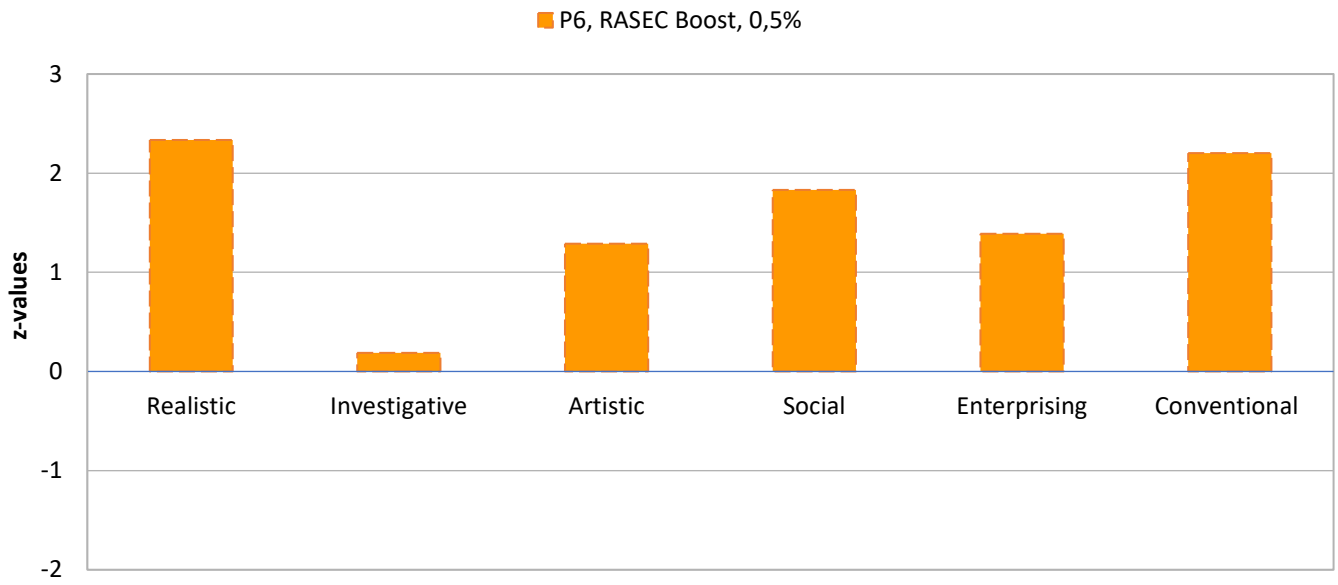
Supplement E5h: Bar-chart representation of profile 4: Interest loss



Supplement E5i: Bar-chart representation of profile 5: SE gain



Supplement E5j: Bar-chart representation of profile 6: RASEC Boost



Supplement E6: Modelling interest stability by a latent variable approach and by regressing the latent interest variables in wave 9 on the respective latent interest variables in wave 1 for the whole sample. Supplement E6a provides the respective model parameters, supplement E6b the R²s and beta weights of the regressions, and supplement E6c visualizes the covariances of the latent variables at wave 1 and wave 9

E6a: Model parameters

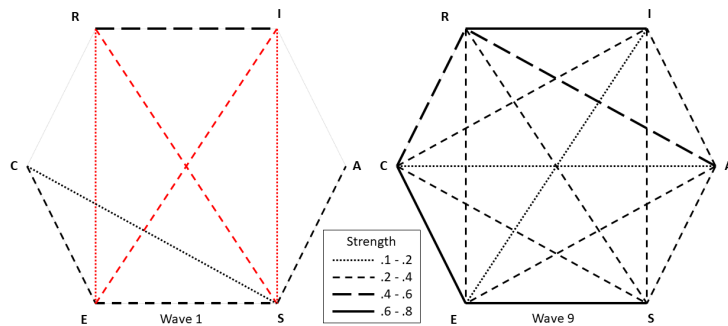
N= 5859; X²₍₅₅₈₎ = 17290,138; p < .001; RMSEA = .072 [.071; .072]; CFI = .771; TLI = .741; SRMR = .076; Baseline Model: X²₍₆₃₀₎ = 73662.733; p < .001

E6b: R²s, regression weights, standard errors, and 95% confidence intervals for the regression weights

	R ²	S.E. (R ²)	Stand. β	S.E. (β)	LCI	UCI
R w9 on R w1	.809	.015	.900	.008	.883	.916
I w9 on I w1	.700	.014	.837	.009	.820	.854
A w9 on A w1	.825	.014	.908	.008	.893	.923
S w9 on S w1	.704	.014	.839	.008	.823	.855
E w9 on E w1	.750	.028	.866	.016	.834	.898
C w9 on C w1	.663	.025	.814	.016	.784	.845

E6c: Covariances between the latent variables at wave 1 and wave 9

Covariances of the latent interest dimensions of all students at wave1 (left) and wave 9 (right). Red lines indicate negative covariances.



Supplement E7: Modelling interest stability by a latent variable approach and by regressing the latent interest variables in wave 9 on the respective latent interest variables in wave 1 for male students. Supplement E7a provides the respective model parameters, supplement E7b the R²s and beta weights of the regressions, and supplement E7c visualizes the covariances of the latent variables at wave 1 and wave 9

E7a: Model parameters

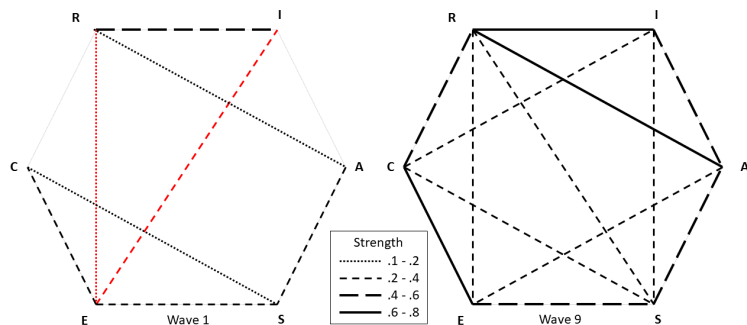
N = 2435; $X^2_{(558)} = 7059.277$; $p < .001$; RMSEA = .069 [.068; .071]; CFI = .759; TLI = .728; SRMR = .073; Baseline Model: $X^2_{(630)} = 27613.681$; $p < .001$

E7b: R²s, regression weights, standard errors, and 95% confidence intervals for the regression weights

	R ²	S.E. (R ²)	Stand. β	S.E. (β)	LCI	UCI
R w9 on R w1	.764	.023	.874	.013	.848	.900
I w9 on I w1	.679	.025	.824	.015	.794	.854
A w9 on A w1	.825	.032	.908	.018	.874	.943
S w9 on S w1	.630	.023	.794	.014	.765	.822
E w9 on E w1	.756	.042	.869	.024	.822	.917
C w9 on C w1	.713	.041	.844	.024	.796	.892

E7c: Covariances between the latent variables at wave 1 and wave 9

Covariances of the latent interest dimensions of *male* students at wave1 (left) and wave 9 (right). Red lines indicate negative covariances.



Supplement E8: Modelling interest stability by a latent variable approach and by regressing the latent interest variables in wave 9 on the respective latent interest variables in wave 1 for the female students. Supplement E8a provides the respective model parameters, supplement E8b the R²s and beta weights of the regressions, and supplement E8c visualizes the covariances of the latent variables at wave 1 and wave 9

E8a: Model parameters

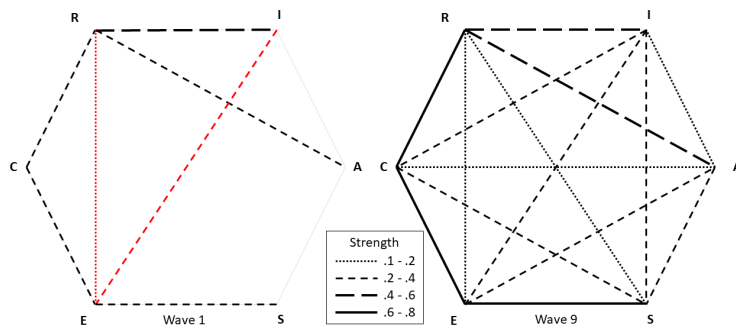
$N = 3424$; $X^2_{(558)} = 9393.407$; $p < .001$; RMSEA = .068 [.067; .069]; CFI = .775; TLI = .746; SRMR = .071; Baseline Model: $X^2_{(630)} = 39980.247$; $p < .001$

E8b: R²s, regression weights, standard errors, and 95% confidence intervals for the regression weights

	R ²	S.E. (R ²)	Stand. β	S.E. (β)	LCI	UCI
R w9 on R w1	.760	.026	.872	.015	.843	.900
I w9 on I w1	.690	.016	.831	.010	.812	.849
A w9 on A w1	.769	.017	.877	.010	.858	.896
S w9 on S w1	.645	.021	.803	.013	.777	.829
E w9 on E w1	.749	.038	.865	.022	.823	.908
C w9 on C w1	.611	.031	.781	.020	.742	.821

E8c: Covariances between the latent variables at wave 1 and wave 9

Covariances of the latent interest dimensions of *female* students at wave1 (left) and wave 9 (right). Red lines indicate negative covariances.



Supplement E9: Overview on the mean level differences, effect sizes, and confidence intervals

Supplement E9a: Means of the six interest dimensions for wave 1 and wave 9 for the total sample

	Realistic	Investigative	Artistic	Social	Enterprising	Conventional
Wave1	2.876	3.168	2.834	3.618	3.387	2.758
Wave 9	2.981	3.033	2.670	3.500	3.078	2.709

Supplement E9b: Effect sizes of the mean differences of the six interest dimensions for wave 1 and wave 9 for the total sample

	Realistic	Investigative	Artistic	Social	Enterprising	Conventional
Cohen's <i>d</i>	-0.135	0.173	0.222	0.160	0.419	0.062

Supplement E9c: Means of the six interest dimensions for wave 1 and wave 9 for male and female students

		Realistic	Investigative	Artistic	Social	Enterprising	Conventional
Male	Wave 1	3.252	3.348	2.383	3.229	3.363	2.677
	Wave 9	3.335	3.270	2.271	3.137	3.110	2.606
Female	Wave 1	2.609	3.040	3.155	3.894	3.404	2.816
	Wave 9	2.728	2.864	2.954	3.758	3.055	2.782

Supplement E9d: Effect sizes of the mean differences of the six interest dimensions for wave 1 and wave 9 for male and female students

		Realistic	Investigative	Artistic	Social	Enterprising	Conventional
Male	Cohen's <i>d</i>	-0.106	0.098	0.156	0.122	0.346	0.091
Female	Cohen's <i>d</i>	-0.156	0.229	0.267	0.189	0.472	0.042

Supplement E9e: Confidence intervals of the effect sizes of the mean differences of the six interest dimensions for wave 1 and wave 9 for the total sample as well as male and female students

	Realistic		Investigative		Artistic		Social		Enterprising		Conventional	
	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI
Total	-0.161	-0.109	0.147	0.199	0.196	0.248	0.135	0.186	0.392	0.446	0.036	0.087
Male	-0.146	-0.066	0.058	0.138	0.117	0.196	0.082	0.162	0.305	0.387	0.052	0.131
Female	-0.190	-0.123	0.195	0.263	0.233	0.301	0.155	0.223	0.437	0.507	0.008	0.075

Supplement E9f: Means of the six interest dimensions for wave 1 and wave 9 for male students of the six study areas

		Realistic	Investigative	Artistic	Social	Enterprising	Conventional
STEM-L	Wave 1	3.663	3.436	2.293	2.975	3.225	2.603
	Wave 9	3.646	3.373	2.172	2.937	3.012	2.552
STEM-M	Wave 1	2.971	3.583	2.329	3.374	3.387	2.810
	Wave 9	3.115	3.448	2.253	3.214	3.076	2.700
Med	Wave 1	2.841	3.858	2.559	4.342	3.390	2.391
	Wave 9	3.176	3.627	2.422	4.060	3.188	2.382
Eco	Wave 1	2.530	2.630	2.256	3.110	3.763	2.935
	Wave 9	2.755	2.656	2.120	3.040	3.438	2.856
Edu ^a	Wave 1	2.626	2.870	3.032	4.382	3.471	2.464
	Wave 9	2.927	2.659	2.789	4.186	3.211	2.407
Lang	Wave 1	2.537	2.885	3.079	3.833	3.659	2.702
	Wave 9	2.758	2.842	3.015	3.658	3.365	2.568

^a: We do not consider male students of education in this analysis because of the low sub-sample size.

Supplement E9g: Effect sizes of the mean differences of the six interest dimensions for wave 1 and wave 9 for male students of the six study areas

		Realistic	Investigative	Artistic	Social	Enterprising	Conventional
STEM-L	Cohen's <i>d</i>	0.022	0.079	0.172	0.050	0.292	0.064
STEM-M	Cohen's <i>d</i>	-0.188	0.169	0.106	0.205	0.421	0.143
Med	Cohen's <i>d</i>	-0.400	0.267	0.179	0.468	0.313	0.013
Eco	Cohen's <i>d</i>	-0.298	-0.039	0.185	0.096	0.454	0.099
Edu ^a	Cohen's <i>d</i>	-0.345	0.271	0.284	0.226	0.336	0.101
Lang	Cohen's <i>d</i>	-0.287	0.057	0.093	0.241	0.392	0.181

^a: We do not consider male students of education in this analysis because of the low sub-sample size.

Supplement E9h: Confidence intervals of the effect sizes of the mean differences of the six interest dimensions for wave 1 and wave 9 for male students of the six study areas

	Realistic		Investigative		Artistic		Social		Enterprising		Conventional	
	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI
STEM-L	-0.032	0.076	0.025	0.133	0.118	0.227	-0.004	0.104	0.237	0.347	0.010	0.118
STEM-M	-0.276	-0.101	0.081	0.256	0.019	0.193	0.117	0.293	0.331	0.511	0.055	0.229
Med	-0.588	-0.211	0.082	0.450	-0.004	0.361	0.276	0.658	0.127	0.498	-0.168	0.194
Eco	-0.422	-0.174	-0.160	0.082	0.063	0.307	-0.026	0.218	0.326	0.581	-0.023	0.220
Edu ^a	-0.659	-0.028	-0.042	0.581	-0.030	0.595	-0.086	0.534	0.019	0.649	-0.206	0.408
Lang	-0.431	-0.141	-0.086	0.199	-0.050	0.235	0.096	0.385	0.244	0.539	0.038	0.325

^a: We do not consider male students of education in this analysis because of the low sub-sample size.

Supplement E9i: Means of the six interest dimensions for wave 1 and wave 9 for female students of the six study areas

		Realistic	Investigative	Artistic	Social	Enterprising	Conventional
STEM-L	Wave 1	3.390	3.467	2.786	3.209	3.088	2.795
	Wave 9	3.307	3.257	2.649	3.244	2.871	2.825
STEM-M	Wave 1	2.736	3.487	2.963	3.841	3.300	2.915
	Wave 9	2.879	3.285	2.755	3.666	2.946	2.879
Med	Wave 1	2.550	3.694	3.087	4.522	3.270	2.425
	Wave 9	2.780	3.344	2.988	4.296	2.915	2.581
Eco	Wave 1	2.375	2.516	2.853	3.403	3.632	2.992
	Wave 9	2.542	2.463	2.621	3.338	3.140	2.898
Edu	Wave 1	2.397	2.681	3.157	4.429	3.441	2.607
	Wave 9	2.462	2.506	2.958	4.199	3.102	2.579
Lang	Wave 1	2.418	2.665	3.585	4.028	3.531	2.825
	Wave 9	2.555	2.517	3.359	3.898	3.198	2.748

Supplement E9j: Effect sizes of the mean differences of the six interest dimensions for wave 1 and wave 9 for female students of the six study areas

		Realistic	Investigative	Artistic	Social	Enterprising	Conventional
STEM-L	Cohen's <i>d</i>	0.103	0.254	0.162	-0.045	0.282	-0.035
STEM-M	Cohen's <i>d</i>	-0.186	0.245	0.282	0.245	0.505	0.044
Med	Cohen's <i>d</i>	-0.326	0.453	0.120	0.382	0.519	-0.197
Eco	Cohen's <i>d</i>	-0.216	0.075	0.309	0.084	0.668	0.110
Edu	Cohen's <i>d</i>	-0.088	0.264	0.274	0.341	0.451	0.035
Lang	Cohen's <i>d</i>	-0.183	0.199	0.314	0.183	0.435	0.092

Supplement E9k: Confidence intervals of the effect sizes of the mean differences of the six interest dimensions for wave 1 and wave 9 for female students of the six study areas

	Realistic		Investigative		Artistic		Social		Enterprising		Conventional	
	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI	95% LCI	95% UCI
STEM-L	-0.003	0.208	0.146	0.361	0.056	0.268	-0.151	0.060	0.174	0.389	-0.141	0.071
STEM-M	-0.249	-0.123	0.182	0.308	0.218	0.345	0.182	0.309	0.439	0.571	-0.019	0.106
Med	-0.455	-0.196	0.321	0.585	-0.006	0.247	0.251	0.513	0.384	0.653	-0.324	-0.070
Eco	-0.313	-0.119	-0.021	0.172	0.210	0.407	-0.012	0.180	0.561	0.774	0.013	0.206
Edu	-0.190	0.014	0.160	0.367	0.170	0.378	0.235	0.445	0.344	0.558	-0.067	0.137
Lang	-0.243	-0.122	0.138	0.260	0.252	0.375	0.122	0.243	0.372	0.498	0.032	0.152

Supplement E10: Selectivity analysis: *F*-Values, significances, and partial η^2 s for an ANOVA comparing gender, persistence, and interests at wave 1 of students that were still present at wave 9 with students that were no more present at wave 9.

	<i>F</i> _(1,10210)	Sig.	Partial η^2
Gender	.193	.660	.000
Study persistence initial course	3112.715	.000	.234
Realistic Interests	2.804	.094	.000
Investigative Interests	14.760	.000	.001
Artistic Interests	7.406	.007	.001
Social Interests	.756	.385	.000
Enterprising Interests	.547	.460	.000
Conventional Interests	3.254	.071	.000