

Appendix

Table A1. Coefficients from the regression analysis with dependent variable life satisfaction, random intercepts for households and individuals

	M1		M2		M3		M4		M5	
	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.
Year (c. 2019)										
2015			−0.343**	(0.042)	−0.342**	(0.042)	−0.300**	(0.066)	−0.342**	(0.042)
2016			−0.358**	(0.042)	−0.357**	(0.042)	−0.281**	(0.067)	−0.357**	(0.042)
2017			−0.308**	(0.043)	−0.305**	(0.043)	−0.255**	(0.068)	−0.305**	(0.043)
2018			−0.162**	(0.043)	−0.158**	(0.043)	−0.116	(0.068)	−0.158**	(0.043)
2019			-		-		-		-	
2020			−0.333**	(0.053)	−0.338**	(0.053)	−0.338**	(0.085)	−0.386**	(0.075)
2021			−0.515**	(0.063)	−0.525**	(0.063)	−0.363**	(0.103)	−0.415**	(0.093)
2023			0.077	(0.048)	0.083	(0.048)	0.181*	(0.077)	0.083	(0.048)
Age (c. 15–34)										
35–49					−0.183**	(0.038)	−0.183**	(0.038)	−0.183**	(0.038)
50+					−0.164**	(0.038)	−0.164**	(0.038)	−0.164**	(0.038)
Education (lower)										
Secondary					0.244**	(0.035)	0.245**	(0.035)	0.245**	(0.035)
Tertiary					0.558**	(0.043)	0.558**	(0.043)	0.558**	(0.043)
Female					−0.029	(0.028)	0.058	(0.079)	−0.027	(0.028)
2015 # female							−0.065	(0.085)		
2016 # female							−0.126	(0.086)		
2017 # female							−0.08	(0.087)		
2018 # female							−0.066	(0.087)		
2020 # female							0.000	(0.108)	0.077	(0.088)
2021 # female							−0.258*	(0.129)	−0.173	(0.109)
2023 # female							−0.161	(0.098)		
Constant	7.114**	(0.020)	7.385**	(0.041)	7.293**	(0.070)	7.239**	(0.084)	7.293**	(0.070)
R.E. ^a househ. (cons.)	1.011	(0.043)	1.000	(0.043)	0.936	(0.042)	0.935	(0.042)	0.936	(0.042)
R.E. ^a person (cons.)	0.646	(0.036)	0.660	(0.035)	0.658	(0.035)	0.658	(0.035)	0.658	(0.035)
AR1 rho	0.073	(0.011)	0.067	(0.011)	0.066	(0.011)	0.066	(0.011)	0.067	(0.011)
var(e)	2.492	(0.026)	2.462	(0.026)	2.462	(0.026)	2.461	(0.026)	2.462	(0.026)
BIC	131,190.1		131,018.2		130,886.3		130,951.1		130,903.4	

N (household/ individual/ obs.) = 5,213/ 9,779/ 32,526; p < 0.05, ** p < 0.01; R.E. a – random effect

Table A2. Coefficients from the regression analysis with dependent variable life satisfaction, random intercepts for households and individuals

	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.
Year(c. 2019)										
2015	−0.436**	(0.075)	−0.341**	(0.042)	−0.342**	(0.042)	−0.355**	(0.111)	−0.342**	(0.042)
2016	−0.417**	(0.076)	−0.356**	(0.042)	−0.357**	(0.042)	−0.360**	(0.113)	−0.357**	(0.042)
2017	−0.391**	(0.076)	−0.305**	(0.043)	−0.305**	(0.043)	−0.323**	(0.114)	−0.305**	(0.043)
2018	−0.132	(0.076)	−0.158**	(0.043)	−0.158**	(0.043)	−0.134	(0.114)	−0.158**	(0.043)
2019					-		-		-	
2020	−0.219*	(0.102)	−0.179*	(0.090)	−0.338**	(0.053)	−0.614**	(0.147)	−0.595**	(0.124)
2021	−0.384**	(0.136)	−0.339**	(0.126)	−0.525**	(0.063)	−0.457*	(0.214)	−0.434*	(0.196)
2023	0.084	(0.087)	0.083	(0.048)	0.083	(0.048)	−0.130	(0.140)	0.084	(0.048)
Age (c. 15–34)										
35–49	−0.174**	(0.038)	−0.181**	(0.038)	−0.183**	(0.038)	−0.211	(0.127)	−0.189**	(0.038)
50+	−0.159**	(0.038)	−0.164**	(0.038)	−0.164**	(0.038)	−0.191	(0.118)	−0.172**	(0.038)
Education (c. lower)										
Secondary	0.226*	(0.093)	0.254**	(0.035)	0.244**	(0.035)	0.239**	(0.035)	0.245**	(0.035)
Tertiary	0.410**	(0.104)	0.570**	(0.044)	0.558**	(0.043)	0.553**	(0.043)	0.557**	(0.043)
Female										
	−0.029	(0.028)	−0.029	(0.028)	−0.029	(0.028)	−0.029	(0.028)	−0.029	(0.028)
35–49 # 2015							0.000	(0.136)		
50+ # 2015							0.022	(0.124)		
35–49 # 2016							0.051	(0.138)		
50+ # 2016							−0.025	(0.126)		
35–49 # 2017							0.051	(0.139)		
50+ # 2017							0.004	(0.127)		
35–49 # 2018							−0.014	(0.139)		
50+ # 2018							−0.040	(0.127)		
35–49 # 2020							0.238	(0.178)	0.215	(0.145)
50+ # 2020							0.352*	(0.163)	0.331*	(0.133)
35–49 # 2021							−0.022	(0.244)	−0.049	(0.216)
50+ # 2021							−0.092	(0.228)	−0.119	(0.204)
35–49 # 2023							0.136	(0.168)		
50+ # 2023							0.286	(0.153)		
Secondary # 2015	0.057	(0.098)								
Tertiary # 2015	0.289**	(0.110)								
Secondary # 2016	0.045	(0.099)								
Tertiary # 2016	0.153	(0.112)								
Secondary # 2017	0.082	(0.100)								
Tertiary # 2017	0.199	(0.112)								
Secondary # 2018	−0.075	(0.100)								
Tertiary # 2018	−0.012	(0.112)								
Secondary # 2020	−0.147	(0.129)	−0.163	(0.107)						
Tertiary # 2020	−0.168	(0.141)	−0.290*	(0.116)						
Secondary # 2021	−0.274	(0.165)	−0.293*	(0.144)						
Tertiary # 2021	−0.021	(0.174)	−0.157	(0.150)						
Secondary # 2023	−0.049	(0.115)								
Tertiary # 2023	0.07	(0.127)								
Constant	7.339**	(0.089)	7.286**	(0.070)	7.317**	(0.056)	7.344**	(0.110)	7.323**	(0.056)
R.E. ^a househ. (cons.)	0.934	(0.042)	0.935	(0.042)	0.937	(0.042)	0.939	(0.042)	0.937	(0.042)
R.E. ^a person (cons.)	0.660	(0.035)	0.658	(0.035)	0.655	(0.035)	0.653	(0.035)	0.654	(0.035)
AR1 rho	0.066	(0.011)	0.066	(0.011)	0.066	(0.011)	0.066	(0.011)	0.066	(0.011)
var(e)	2.458	(0.026)	2.461	(0.026)	2.461	(0.026)	2.459	(0.026)	2.460	(0.026)
BIC	130,998.3		130,917.2		130,875.1		130,999.6		130,909.1	

N (household/ individual/ obs.) = 5,213/ 9,779/ 32,526; p < 0.05, ** p < 0.01; R.E.^a – random effect

Table A3. Coefficients from logistic regression with dependent variable highly satisfied (8+ points), random intercepts for households and individuals

	M1		M2		M3		M4		M5		M6	
	OR	s.e.	OR	s.e.	OR	s.e.	OR	s.e.	OR	s.e.	OR	s.e.
Year (c. 2019)												
2015	0.69**	(0.07)	0.68**	(0.05)	0.77	(0.14)	0.68**	(0.05)	0.70**	(0.08)	0.68**	(0.05)
2016	0.65**	(0.07)	0.63**	(0.04)	0.78	(0.14)	0.63**	(0.04)	0.71**	(0.08)	0.63**	(0.04)
2017	0.71**	(0.08)	0.71**	(0.05)	0.83	(0.16)	0.71**	(0.05)	0.75*	(0.09)	0.71**	(0.05)
2018	0.92	(0.10)	0.89	(0.06)	1.01	(0.19)	0.89	(0.06)	1	(0.12)	0.89	(0.06)
2019					-		-					
2020	0.55**	(0.08)	0.53**	(0.07)	0.37**	(0.09)	0.33**	(0.07)	0.92	(0.15)	0.85	(0.12)
2021	0.58**	(0.10)	0.49**	(0.05)	0.49*	(0.17)	0.49**	(0.05)	0.69	(0.15)	0.48**	(0.05)
2023	1.36*	(0.17)	1.27**	(0.10)	0.92	(0.21)	1.28**	(0.10)	1.52**	(0.21)	1.27**	(0.10)
Age (c. 15–34)												
35–49	0.83**	(0.05)	0.83**	(0.05)	0.91	(0.19)	0.83**	(0.05)	0.84**	(0.05)	0.83**	(0.05)
50+	0.80**	(0.05)	0.80**	(0.05)	0.91	(0.18)	0.78**	(0.05)	0.80**	(0.05)	0.80**	(0.05)
Education (lower)												
Secondary	1.47**	(0.08)	1.47**	(0.08)	1.46**	(0.08)	1.48**	(0.08)	1.74**	(0.26)	1.50**	(0.08)
Tertiary	2.63**	(0.17)	2.63**	(0.17)	2.60**	(0.17)	2.63**	(0.17)	2.82**	(0.48)	2.67**	(0.18)
Female	1.01	(0.13)	0.98	(0.04)	0.99	(0.04)	0.99	(0.04)	0.99	(0.04)	0.99	(0.04)
2015 # female	0.99	(0.14)										
2016 # female	0.95	(0.13)										
2017 # female	1.02	(0.14)										
2018 # female	0.95	(0.14)										
2020 # female	1.12	(0.20)	0.53**	(0.07)								
2021 # female	0.76	(0.16)										
2023 # female	0.90	(0.14)										
35–49 # 2015					0.89	(0.20)						
50+ # 2015					0.87	(0.18)						
35–49 # 2016					0.87	(0.20)						
50+ # 2016					0.73	(0.15)						
35–49 # 2017					0.93	(0.21)						
50+ # 2017					0.78	(0.16)						
35–49 # 2018					0.92	(0.21)						
50+ # 2018					0.84	(0.18)						
35–49 # 2020					1.38	(0.41)	1.48	(0.35)				
50+ # 2020					1.89*	(0.51)	2.12**	(0.45)				
35–49 # 2021					0.96	(0.38)						
50+ # 2021					1.01	(0.37)						
35–49 # 2023					1.17	(0.32)						
50+ # 2023					1.59	(0.39)						
Secondary # 2015									0.90	(0.14)		
Tertiary # 2015									1.13	(0.20)		
Secondary # 2016									0.82	(0.13)		
Tertiary # 2016									0.89	(0.16)		
Secondary # 2017									0.92	(0.15)		
Tertiary # 2017									0.97	(0.18)		
Secondary # 2018									0.85	(0.14)		
Tertiary # 2018									0.79	(0.15)		
Secondary # 2020									0.53**	(0.11)	0.61**	(0.10)
Tertiary # 2020									0.55*	(0.13)	0.59**	(0.11)
Secondary # 2021									0.61	(0.16)		
Tertiary # 2021									0.66	(0.19)		
Secondary # 2023									0.72	(0.13)		
Tertiary # 2023									0.85	(0.18)		
Constant												
R.E. ^b hh (cons.)	5.29**	(0.51)	5.30**	(0.51)	5.38**	(0.53)	5.33**	(0.52)	5.31**	(0.52)	5.30**	(0.51)
R.E. ^b person (cons.)	4.34**	(0.39)	4.34**	(0.39)	4.30**	(0.38)	4.33**	(0.39)	4.37**	(0.39)	4.35**	(0.39)
ICC ^c hh	0.259		0.259		0.262		0.260		0.260		0.259	
ICC ^c person	0.488		0.488		0.488		0.488		0.489		0.488	
BIC	39,505.5		39,446.8		39,540.8		39,442.7		39,555.8		39,447.8	

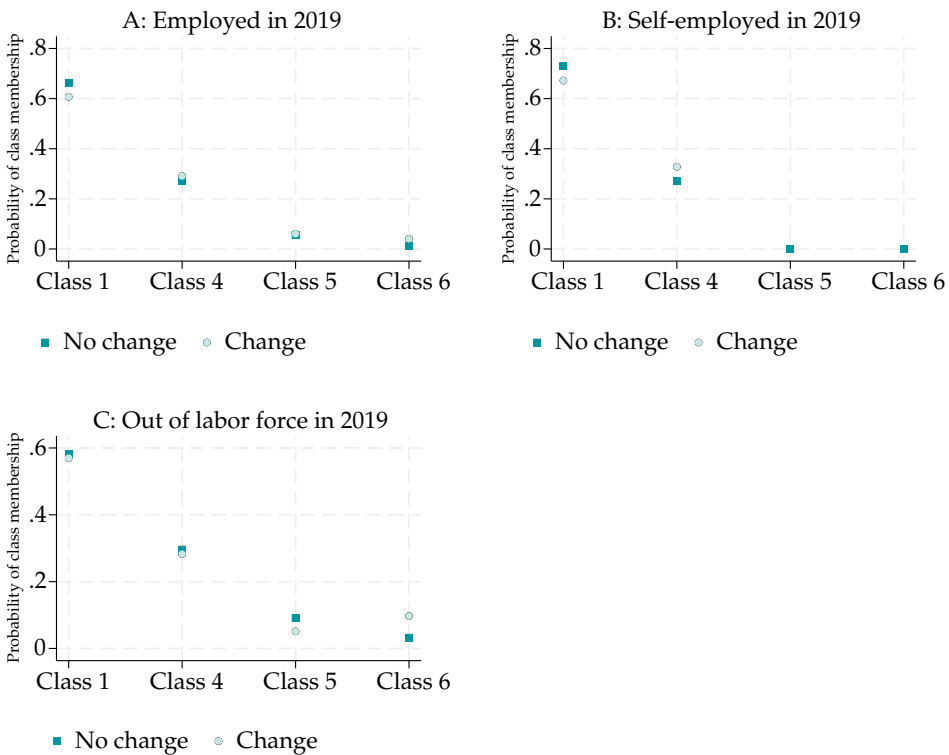
N (household/ individual/ obs.) = 5,213/ 9,779/ 32,526; p < 0.05, ** p < 0.01; R.E.^a – random effect

Table A4. Estimated relative risk ratio of belonging to a specific latent lass

	Class 4 (× Class 1)					Class 5 (× Class 1)					Class 6 (× Class 1)				
	M1	M2	M3	M4	M5	M1	M2	M3	M4	M5	M1	M2	M3	M4	M5
Age	1.00 (0.00)	1.00 (0.00)	1.00 (0.01)	1.00 (0.01)	1.01 (0.01)	1.01 (0.01)	1.00 (0.01)	1.00 (0.01)	1.00 (0.01)	1.00 (0.01)	1.03** (0.01)	1.03* (0.01)	1.03* (0.01)	1.03 (0.01)	1.03 (0.02)
Male	0.84 (0.10)	0.85 (0.11)	0.85 (0.11)	0.85 (0.11)	0.85 (0.11)	0.80 (0.17)	0.81 (0.17)	0.83 (0.18)	0.83 (0.18)	0.82 (0.17)	0.83 (0.24)	0.82 (0.24)	0.83 (0.24)	0.83 (0.24)	0.82 (0.24)
Educatio (× lower)															
Secondary	0.77 (0.11)	0.77 (0.11)	0.78 (0.12)	0.78 (0.12)	0.78 (0.12)	1.01 (0.25)	1.00 (0.24)	1.03 (0.25)	1.04 (0.25)	1.04 (0.25)	0.99 (0.32)	0.99 (0.31)	1.03 (0.33)	1.04 (0.34)	1.03 (0.33)
Tertiary	0.61** (0.10)	0.61** (0.10)	0.61** (0.10)	0.62** (0.10)	0.61** (0.10)	0.50* (0.15)	0.50* (0.15)	0.53* (0.16)	0.54* (0.17)	0.52* (0.16)	0.57 (0.22)	0.57 (0.22)	0.59 (0.22)	0.61 (0.23)	0.58 (0.22)
Household structure (× single person)															
Parent(s) with children < 18		0.98 (0.22)	1.00 (0.22)	1.01 (0.22)	1.00 (0.22)		0.84 (0.31)	0.87 (0.32)	0.87 (0.32)	0.90 (0.33)		0.91 (0.49)	0.94 (0.51)	0.95 (0.51)	0.96 (0.52)
Other types of households		0.86 (0.15)	0.86 (0.15)	0.86 (0.15)	0.86 (0.15)		0.82 (0.23)	0.82 (0.23)	0.82 (0.23)	0.83 (0.23)		1.20 (0.42)	1.21 (0.43)	1.21 (0.43)	1.21 (0.43)
Economic activity 2019 (× employed)															
Self-employed			0.97 (0.27)	0.81 (0.35)	0.98 (0.33)			1.38 (0.61)	1.88 (1.13)	1.93 (0.91)			0.39 (0.41)	1.94 (2.25)	0.58 (0.62)
Out of LF			1.07 (0.17)	1.09 (0.19)	1.03 (0.18)			1.42 (0.37)	1.61 (0.50)	1.56 (0.47)			1.87 (0.76)	2.51 (1.51)	1.78 (0.81)
Change in economic activity (× 2019)															
2020–2022			1.12 (0.18)	1.12 (0.20)	1.12 (0.18)			0.94 (0.26)	1.11 (0.37)	0.91 (0.25)			2.48* (1.00)	3.44* (1.99)	2.45* (0.99)
2023			1.43 (0.27)	1.45 (0.28)	1.35 (0.34)			1.28 (0.44)	1.29 (0.44)	1.91 (0.82)			1.22 (0.64)	1.22 (0.64)	1.24 (0.84)
Self-employed 2019 # 2020–2022				1.32 (0.71)					0.54 (0.47)					0.00** (0.00)	
Out of LF # 2020–2022				0.83 (0.37)					0.55 (0.48)					0.54 (0.56)	
Self-employed 2019 # 2023					0.96 (0.57)					0.21 (0.25)					0.00** (0.00)
Out of LF # 2023					1.22 (0.54)					0.53 (0.39)					1.27 (1.47)

N = 1,458; BIC: model 1 – 2,956.1; model 2 – 2,997.2; model 3 – 3,071.2; model 4 = 3,110.3; model 5 = 3,111.4; Standard errors in parentheses; * p < 0.05, ** p < 0.01
Class 1 – High initial life satisfaction, remained stable overall, with only a slight dip during COVID-19; Class 4 – Lower baseline satisfaction, substantive decline during COVID-19, but by 2023 recovered and surpassed pre-pandemic levels;
Class 5 – Persistently low wellbeing before COVID-19, declined further during the pandemic, with no recovery and very low satisfaction levels; Class 6 – The maximum or nearly maximum levels of life satisfaction across the entire period

Figure A1. Predicted probabilities of latent class membership by economic status and changes in status between 2019 and the covid period (2020–2021)



NOTES:

Class 1 – High life satisfaction in 2019 (mean 8.2), small decline between 2020–2021, full recovery by 2023

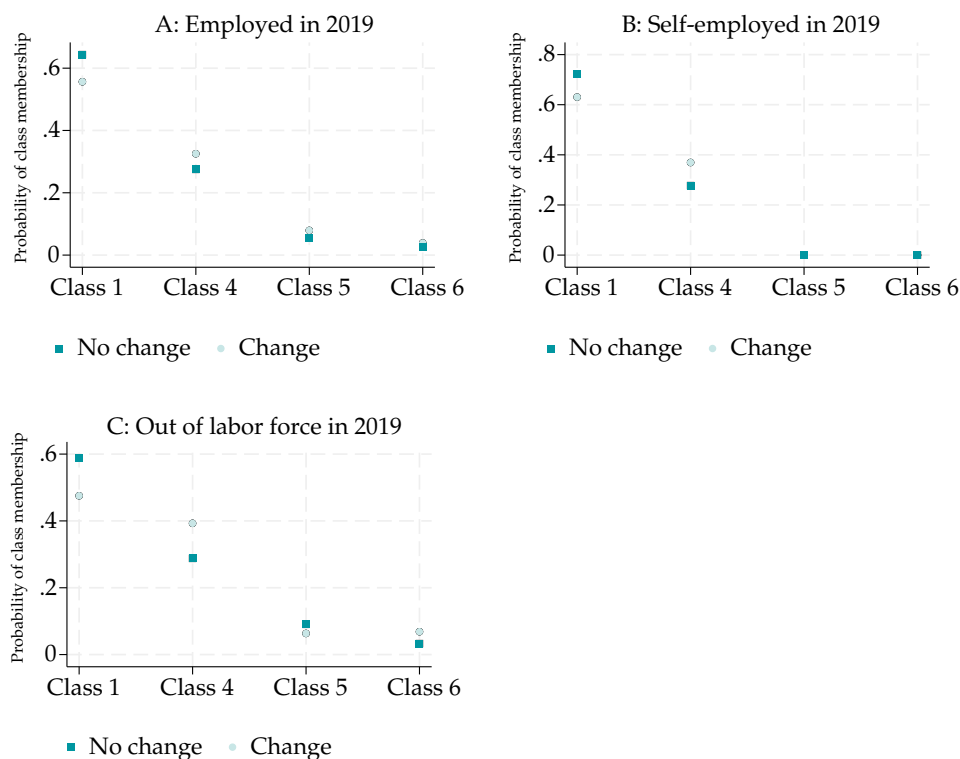
Class 4 – Lower life satisfaction in 2019 (mean 6.4), substantive decline between 2020–2021, in 2023 prepandemic levels surpassed

Class 5 – Low levels of life satisfaction in 2019 (mean 5.3), further decline between 2020–2021, without recovery in post-pandemic years

Class 6 – Consistently the maximum level of life satisfaction, throughout the entire period

N = 1,458, all models control for sex, age, education, and household structure

Figure A2. Predicted probabilities of latent class membership by economic status and changes in status between 2019 and the postcovid period (2023)



NOTES:

Class 1 – High life satisfaction in 2019 (mean 8.2), small decline between 2020–2021, full recovery by 2023

Class 4 – Lower life satisfaction in 2019 (mean 6.4), substantive decline between 2020–2021, in 2023 prepandemic levels surpassed

Class 5 – Low levels of life satisfaction in 2019 (mean 5.3), further decline between 2020–2021, without recovery in post-pandemic years

Class 6 – Consistently the maximum level of life satisfaction, throughout the entire period

N = 1,458, all models control for sex, age, education, and household structure