

Appendix Tables & Figures

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<Appendix Table 1> Decomposition of % changes in the variance of log individual income relative to 2009

%Δ	Decomposition: $\%Δ = (a) + (b) + (c) + (d) + (e) + (f)$											
	(a) Age		(b) Sex		(c) Education		(d) Family type		(e) Relations to HH		(f) Residual	
	Dist. (a1)	Coef. (a2)	Dist. (b1)	Coef. (b2)	Dist. (c1)	Coef. (c2)	Dist. (d1)	Coef. (c2)	Dist. (e1)	Coef. (e2)		
HIES-A: Age 20-79												
1999	-15.150 *** (3.583)	-3.120 *** (0.584)	-0.283 (0.222)	-0.380 (0.331)	-3.547 ** (1.177)	-0.864 (0.550)	0.838 (0.780)	0.172 (0.118)	-0.011 (0.103)	0.237 (0.822)	4.612 ** (1.574)	-12.804 *** (2.112)
2000	12.434 ** (4.441)	-3.221 *** (0.627)	-0.050 (0.242)	2.230 *** (0.402)	-1.702 (1.683)	-1.566 * (0.647)	-1.810 ** (0.690)	-0.034 (0.133)	-0.012 (0.115)	8.615 *** (0.903)	16.942 *** (2.589)	-6.958 ** (2.304)
2001	11.468 ** (4.274)	-3.534 *** (0.650)	-0.195 (0.188)	1.511 *** (0.348)	-5.208 ** (1.608)	-1.519 * (0.599)	-0.955 (0.719)	0.000 (0.138)	-0.112 (0.080)	8.373 *** (0.860)	19.648 *** (2.601)	-6.541 ** (2.364)
2002	3.379 (4.215)	-3.641 *** (0.624)	-0.151 (0.185)	1.512 *** (0.346)	-2.001 (1.522)	-2.201 *** (0.612)	-1.881 ** (0.621)	0.013 (0.128)	-0.079 (0.085)	6.946 *** (0.844)	13.792 *** (2.353)	-8.931 *** (2.218)
2003	39.082 *** (5.110)	-2.689 *** (0.605)	-0.029 (0.254)	3.379 *** (0.497)	-2.547 (1.953)	-0.960 (0.563)	-1.408 * (0.690)	-0.176 (0.160)	0.208 (0.179)	12.424 *** (0.917)	23.935 *** (3.079)	6.945 ** (2.605)
2004	27.039 *** (4.574)	-2.450 *** (0.586)	0.165 (0.303)	2.284 *** (0.384)	-1.895 (1.723)	-1.507 ** (0.575)	-1.616 * (0.660)	-0.110 (0.135)	0.033 (0.135)	9.215 *** (0.832)	16.849 *** (2.544)	6.071 * (2.625)
2005	21.456 *** (4.731)	-2.827 *** (0.590)	-0.302 (0.255)	1.618 *** (0.340)	-3.353 * (1.652)	-0.878 (0.551)	-0.144 (0.751)	-0.111 (0.122)	0.043 (0.143)	7.402 *** (0.851)	14.344 *** (2.476)	5.663 * (2.721)
2006	9.473 * (4.622)	-2.116 *** (0.555)	0.097 (0.342)	0.711 * (0.306)	-2.816 (1.541)	-0.583 (0.570)	0.208 (0.798)	0.050 (0.082)	-0.099 (0.147)	3.617 *** (0.853)	7.792 *** (2.149)	2.612 (2.679)
2007	0.332 (4.319)	-1.608 ** (0.583)	-0.242 (0.384)	0.003 (0.326)	-1.878 (1.435)	-0.630 (0.562)	0.457 (0.827)	0.037 (0.074)	0.227 (0.200)	0.844 (0.844)	3.445 * (1.716)	-0.324 (2.760)
2008	-0.407 (4.105)	-1.304 * (0.595)	-0.208 (0.434)	-0.002 (0.340)	-0.511 (1.396)	-0.931 (0.601)	-0.221 (0.825)	0.025 (0.078)	0.057 (0.196)	0.417 (0.846)	1.942 (1.714)	0.328 (2.767)
2010	3.526 (4.353)	-0.235 (0.596)	0.602 (0.563)	0.497 (0.321)	0.609 (1.523)	-0.375 (0.556)	-1.131 (0.813)	-0.013 (0.077)	-0.175 (0.202)	1.156 (0.872)	1.296 (1.803)	1.293 (2.754)
2011	3.876 (4.515)	0.757 (0.605)	0.850 (0.656)	0.288 (0.323)	-0.635 (1.510)	0.649 (0.554)	-0.463 (0.946)	0.109 (0.107)	-0.083 (0.329)	0.856 (0.850)	2.110 (1.753)	-0.562 (2.812)
2012	-1.393 (4.496)	2.141 ** (0.724)	1.025 (0.779)	-0.144 (0.351)	0.761 (1.415)	-0.380 (0.583)	-1.227 (0.848)	-0.006 (0.153)	0.278 (0.446)	-0.625 (0.894)	-0.759 (1.597)	-2.458 (2.861)

2013	-8.190 (4.234)	2.557*** (0.635)	0.701 (0.787)	-0.520 (0.359)	-0.778 (1.355)	-1.355* (0.589)	-2.103** (0.804)	0.075 (0.136)	0.176 (0.369)	-1.697 (0.900)	-0.594 (1.522)	-4.650 (2.838)	
2014	-16.118*** (3.822)	2.375*** (0.663)	0.416 (0.766)	-0.871* (0.370)	-0.013 (1.313)	-1.714** (0.587)	-2.102** (0.711)	0.151 (0.124)	0.235 (0.359)	-3.625*** (0.927)	-2.939* (1.392)	-8.031** (2.500)	
2015	-11.034** (4.279)	2.696*** (0.665)	0.673 (0.784)	-0.691 (0.374)	-1.068 (1.470)	-2.112*** (0.633)	-2.874*** (0.681)	0.174 (0.145)	0.575 (0.428)	-2.613** (0.932)	-0.711 (1.644)	-5.082 (2.882)	
2016	-14.041*** (4.002)	4.483*** (0.769)	1.144 (0.915)	-0.944* (0.384)	-0.573 (1.373)	-0.988 (0.574)	-3.013*** (0.758)	0.117 (0.151)	0.202 (0.394)	-3.792*** (0.952)	-2.469 (1.421)	-8.207** (2.884)	
2017	-37.795*** (3.580)	5.293*** (1.064)	0.962 (1.239)	-2.474*** (0.547)	0.256 (1.197)	-1.453* (0.680)	-3.160*** (0.873)	0.157 (0.169)	0.201 (0.456)	-8.713*** (1.105)	-6.025*** (0.989)	-22.839*** (2.531)	
2018	-44.603*** (2.717)	2.975*** (0.697)	-0.504 (0.744)	-2.880*** (0.551)	0.083 (0.970)	-2.061*** (0.622)	-2.223** (0.689)	0.183 (0.126)	0.070 (0.357)	-9.899*** (1.088)	-6.298*** (0.810)	-24.050*** (2.056)	
2019	-43.348*** (2.799)	5.188*** (0.850)	0.443 (0.902)	-3.250*** (0.633)	0.052 (0.912)	-1.932** (0.632)	-1.950** (0.688)	0.208 (0.113)	-0.443 (0.301)	-10.751*** (1.044)	-6.353*** (0.736)	-24.562*** (1.982)	

HIES-A: Age 25-59													
1999	-12.081** (4.045)	0.120 (0.133)	0.246 (0.180)	-0.802 (0.414)	-4.131** (1.448)	0.750 (0.616)	0.134 (0.850)	0.074 (0.077)	0.003 (0.074)	-0.031 (0.836)	5.327** (1.858)	-13.770*** (2.362)	
2000	17.932*** (5.020)	0.126 (0.153)	0.321 (0.198)	2.455*** (0.487)	-2.226 (2.029)	0.031 (0.684)	-2.402** (0.799)	-0.148 (0.128)	0.041 (0.119)	8.360*** (0.917)	18.653*** (2.975)	-7.279** (2.611)	
2001	19.260*** (5.027)	0.031 (0.156)	0.255 (0.182)	1.744*** (0.431)	-6.637*** (1.980)	0.150 (0.656)	-1.579 (0.810)	-0.094 (0.119)	-0.087 (0.090)	8.563*** (0.931)	23.369*** (3.272)	-6.455* (2.726)	
2002	10.019* (4.727)	0.021 (0.160)	0.173 (0.156)	1.899*** (0.425)	-1.889 (2.046)	-0.948 (0.688)	-2.533*** (0.660)	-0.048 (0.100)	-0.044 (0.065)	7.141*** (0.901)	15.452*** (2.810)	-9.204*** (2.552)	
2003	45.392*** (5.832)	0.015 (0.159)	0.142 (0.136)	3.935*** (0.599)	-3.480 (2.337)	0.188 (0.637)	-1.635* (0.759)	-0.232 (0.159)	0.243 (0.174)	11.983*** (0.946)	26.330*** (3.452)	7.902** (3.045)	
2004	32.000*** (5.565)	0.047 (0.146)	0.143 (0.161)	2.609*** (0.473)	-2.901 (2.145)	-0.663 (0.612)	-1.789* (0.699)	-0.166 (0.144)	0.083 (0.130)	8.908*** (0.898)	18.808*** (3.150)	6.919* (3.047)	
2005	27.193*** (5.332)	0.018 (0.144)	0.109 (0.141)	1.929*** (0.409)	-3.650 (2.009)	0.046 (0.563)	-0.609 (0.749)	-0.147 (0.125)	0.010 (0.106)	7.380*** (0.830)	15.626*** (2.947)	6.481* (3.072)	
2006	12.400* (5.090)	0.055 (0.133)	0.308 (0.242)	0.755* (0.380)	-3.102 (1.876)	0.291 (0.586)	-0.044 (0.814)	-0.016 (0.085)	-0.080 (0.084)	3.579*** (0.831)	7.951** (2.452)	2.703 (3.050)	
2007	2.281 (5.042)	0.030 (0.129)	0.044 (0.178)	-0.180 (0.393)	-3.033 (1.699)	-0.079 (0.602)	0.263 (0.802)	-0.018 (0.084)	0.065 (0.130)	0.983 (0.882)	4.278* (2.151)	-0.070 (3.243)	

2008	2.310	0.029	0.026	-0.191	-1.179	-0.428	-0.128	-0.006	0.006	0.425	2.375	1.382
	(5.033)	(0.131)	(0.186)	(0.405)	(1.738)	(0.642)	(0.823)	(0.081)	(0.090)	(0.855)	(2.122)	(3.496)
2010	2.736	0.020	0.070	0.376	0.327	-0.704	-0.897	-0.015	-0.070	1.234	1.508	0.888
	(4.818)	(0.123)	(0.195)	(0.390)	(1.912)	(0.639)	(0.766)	(0.082)	(0.085)	(0.866)	(2.138)	(3.069)
2011	1.114	-0.007	0.208	0.271	-0.400	0.223	-0.187	0.133	-0.002	0.752	1.775	-1.653
	(5.211)	(0.152)	(0.292)	(0.395)	(1.945)	(0.616)	(0.825)	(0.088)	(0.165)	(0.908)	(2.174)	(3.361)
2012	-6.138	0.225	0.106	-0.273	0.341	-1.103	-0.511	0.067	0.063	-0.582	-0.592	-3.879
	(4.812)	(0.120)	(0.274)	(0.403)	(1.789)	(0.639)	(0.720)	(0.104)	(0.211)	(0.903)	(2.010)	(3.155)
2013	-14.471**	0.314*	0.477	-0.758	-0.083	-2.525***	-1.634**	0.105	0.020	-1.697	-1.448	-7.242*
	(4.678)	(0.132)	(0.340)	(0.420)	(1.639)	(0.662)	(0.593)	(0.085)	(0.186)	(0.923)	(1.809)	(3.143)
2014	-19.786***	0.405**	0.553	-1.204**	0.026	-2.606***	-1.211*	0.175	0.238	-3.171***	-3.149	-9.843***
	(4.103)	(0.130)	(0.364)	(0.442)	(1.671)	(0.707)	(0.606)	(0.103)	(0.240)	(0.927)	(1.742)	(2.735)
2015	-15.099**	0.313**	0.389	-0.928*	-1.103	-3.220***	-1.564**	0.207	0.483	-2.384*	-0.996	-6.297
	(5.137)	(0.116)	(0.310)	(0.456)	(2.035)	(0.790)	(0.594)	(0.109)	(0.300)	(0.990)	(2.260)	(3.567)
2016	-21.224***	0.158	0.273	-1.352**	-0.044	-2.901***	-1.442*	0.140	0.162	-3.596***	-3.320*	-9.300***
	(4.397)	(0.122)	(0.255)	(0.493)	(1.679)	(0.712)	(0.609)	(0.087)	(0.188)	(0.960)	(1.674)	(3.296)
2017	-50.959***	0.014	0.018	-3.417***	0.444	-4.088***	-0.761	0.192	0.186	-8.678***	-6.565***	-28.304***
	(3.384)	(0.139)	(0.187)	(0.708)	(1.498)	(0.774)	(0.640)	(0.106)	(0.221)	(1.145)	(1.308)	(2.807)
2018	-53.529***	0.019	-0.257*	-3.898***	-0.483	-3.834***	-0.831	0.193	0.185	-9.678***	-6.432***	-28.512***
	(2.917)	(0.134)	(0.130)	(0.715)	(1.207)	(0.746)	(0.512)	(0.100)	(0.187)	(1.177)	(1.013)	(2.445)
2019	-56.756***	0.137	-0.057	-4.221***	-0.449	-4.018***	-0.589	0.225*	0.163	-10.722***	-6.430***	-30.796***
	(2.361)	(0.110)	(0.165)	(0.736)	(1.123)	(0.695)	(0.478)	(0.114)	(0.191)	(1.181)	(0.896)	(1.986)

HIES-D: Age 20-79

2010	1.627	0.522	0.975	0.077	-0.360	-0.246	-0.821	-0.233	-0.336	0.799	1.016	0.161
	(3.192)	(0.889)	(0.850)	(0.202)	(0.700)	(0.359)	(0.641)	(0.261)	(0.428)	(0.475)	(0.691)	(2.107)
2011	1.247	1.224	0.493	0.250	0.063	0.023	-0.665	-0.139	-0.623	1.249**	1.062	-1.815
	(3.161)	(0.884)	(0.890)	(0.189)	(0.735)	(0.380)	(0.682)	(0.248)	(0.421)	(0.484)	(0.710)	(2.070)
2012	-4.163	2.299*	-0.494	0.124	0.360	-0.451	-1.464*	-0.063	0.068	0.610	0.116	-5.013**
	(2.961)	(0.897)	(0.847)	(0.190)	(0.651)	(0.364)	(0.594)	(0.241)	(0.470)	(0.456)	(0.606)	(1.906)
2013	-1.901	4.169***	-0.825	-0.072	-0.692	-0.356	-1.550*	0.078	0.101	0.160	0.207	-2.925
	(3.158)	(0.921)	(0.883)	(0.204)	(0.670)	(0.381)	(0.626)	(0.235)	(0.484)	(0.516)	(0.648)	(2.119)
2014	-6.397*	4.317***	-0.974	-0.316	-0.463	-0.555	-2.239***	0.329	-0.025	-1.261*	-0.714	-4.286
	(3.175)	(0.969)	(0.902)	(0.222)	(0.663)	(0.362)	(0.585)	(0.222)	(0.456)	(0.495)	(0.518)	(2.241)

2015	-6.390*	3.882***	-0.753	-0.112	0.127	-1.118**	-3.227***	0.322	-0.010	-0.839	-0.398	-4.032
	(3.008)	(0.887)	(0.902)	(0.210)	(0.689)	(0.368)	(0.564)	(0.226)	(0.450)	(0.515)	(0.553)	(2.137)
2016	-11.288***	4.110***	-1.221	-0.533*	-0.980	-0.519	-2.265***	0.059	-0.473	-1.583**	-0.528	-7.355***
	(2.868)	(0.893)	(0.841)	(0.215)	(0.595)	(0.383)	(0.607)	(0.229)	(0.432)	(0.518)	(0.515)	(1.943)
2017	-36.407***	1.802	-3.871***	-1.027***	-0.922	-1.384**	-2.178***	-0.008	-0.596	-3.233***	-1.767***	-22.939***
	(2.913)	(1.103)	(0.817)	(0.289)	(0.612)	(0.460)	(0.620)	(0.273)	(0.413)	(0.601)	(0.437)	(2.050)
2018	-39.901***	0.662	-3.934***	-1.428***	-0.379	-1.497***	-1.814***	0.123	-0.470	-4.467***	-2.157***	-24.162***
	(2.196)	(0.902)	(0.648)	(0.276)	(0.458)	(0.403)	(0.505)	(0.234)	(0.363)	(0.578)	(0.287)	(1.679)
2019	-40.147***	1.865*	-4.499***	-1.643***	-0.622	-1.537***	-1.805***	0.003	-0.730*	-4.865***	-1.862***	-24.023***
	(2.062)	(0.920)	(0.704)	(0.300)	(0.437)	(0.394)	(0.505)	(0.224)	(0.349)	(0.568)	(0.310)	(1.571)

HIES-D: Age 25-59

2010	0.453	-0.035	-0.190	0.177	-0.212	-0.563	-0.388	-0.255	-0.343	1.167	1.263	-0.441
	(3.657)	(0.169)	(0.223)	(0.239)	(0.963)	(0.453)	(0.503)	(0.249)	(0.256)	(0.602)	(1.121)	(2.767)
2011	-1.965	-0.148	-0.196	0.219	-0.250	-0.478	-0.621	-0.290	-0.368	1.498*	1.674	-3.299
	(3.681)	(0.169)	(0.240)	(0.253)	(1.001)	(0.448)	(0.493)	(0.247)	(0.259)	(0.614)	(1.156)	(2.660)
2012	-10.051**	-0.020	-0.240	-0.060	-0.433	-1.714***	-1.325**	-0.325	-0.243	0.913	0.908	-7.670**
	(3.531)	(0.171)	(0.207)	(0.257)	(0.943)	(0.461)	(0.413)	(0.243)	(0.259)	(0.620)	(1.114)	(2.631)
2013	-11.191**	0.115	-0.230	-0.179	-0.349	-2.205***	-1.383***	-0.156	-0.189	0.158	-0.142	-6.763*
	(3.672)	(0.162)	(0.208)	(0.274)	(0.949)	(0.470)	(0.376)	(0.227)	(0.249)	(0.640)	(1.044)	(2.757)
2014	-13.837***	0.275	-0.067	-0.500	-0.176	-2.485***	-1.702***	-0.005	-0.123	-0.975	-1.204	-6.954*
	(3.640)	(0.163)	(0.268)	(0.285)	(1.006)	(0.502)	(0.381)	(0.224)	(0.250)	(0.642)	(1.009)	(2.960)
2015	-13.371***	0.185	-0.063	-0.270	0.765	-3.159***	-1.910***	-0.043	-0.173	-0.755	-1.196	-6.792*
	(3.865)	(0.177)	(0.239)	(0.280)	(1.017)	(0.527)	(0.328)	(0.251)	(0.258)	(0.683)	(1.013)	(2.974)
2016	-22.265***	-0.027	-0.224	-0.855**	-0.551	-2.852***	-1.573***	-0.133	-0.190	-1.915**	-1.362	-12.668***
	(3.397)	(0.179)	(0.194)	(0.299)	(0.845)	(0.511)	(0.354)	(0.247)	(0.254)	(0.688)	(0.868)	(2.690)
2017	-45.686***	-0.250	-0.328*	-1.787***	-0.516	-3.900***	-1.513***	-0.009	-0.144	-4.467***	-2.934***	-29.724***
	(2.920)	(0.208)	(0.153)	(0.395)	(0.822)	(0.591)	(0.368)	(0.272)	(0.259)	(0.832)	(0.761)	(2.473)
2018	-47.887***	-0.288	-0.552***	-2.367***	-0.409	-3.290***	-1.094***	-0.038	-0.173	-6.069***	-3.512***	-30.058***
	(2.331)	(0.201)	(0.124)	(0.403)	(0.657)	(0.501)	(0.319)	(0.248)	(0.244)	(0.752)	(0.545)	(2.024)
2019	-47.725***	-0.127	-0.393**	-2.832***	-1.069	-3.688***	-1.006***	-0.144	-0.303	-6.622***	-3.091***	-28.410***
	(2.286)	(0.203)	(0.147)	(0.459)	(0.557)	(0.528)	(0.281)	(0.249)	(0.213)	(0.819)	(0.527)	(1.965)

Notes: %Δ refers to % changes in the variance of log income relative to 2009. Bootstrapped standard errors from 1,000 replications in parentheses. HIES-A includes the labor income of household heads and their spouses in city households with at least 2 family members. HIES-D includes the personal income of all individuals in all

houesholds.

* p<0.05, ** p<0.01, *** p<0.001 (two-tailed tests)

<Appendix Table 2> Conditional quantile regression results on log personal income: 2009-2019

	2009-2010			2011-2013			2014-2016			2017-2019		
	Q10	Q50	Q90									
HIES-D: Without education controls												
Ref: 40-44												
25-29	-0.039 (0.084)	-0.068* (0.030)	-0.139*** (0.028)	-0.012 (0.056)	-0.099*** (0.022)	-0.272*** (0.025)	-0.183* (0.074)	-0.142*** (0.026)	-0.265*** (0.029)	0.049 (0.066)	-0.101*** (0.029)	-0.331*** (0.032)
30-34	0.082 (0.051)	0.014 (0.022)	-0.042 (0.026)	0.070 (0.038)	-0.067*** (0.019)	-0.179*** (0.021)	-0.056 (0.034)	-0.057** (0.019)	-0.152*** (0.016)	0.036 (0.049)	-0.026 (0.049)	-0.156*** (0.027)
35-39	0.137** (0.044)	0.047* (0.019)	-0.006 (0.031)	0.074* (0.036)	-0.004 (0.016)	-0.074** (0.025)	-0.000 (0.029)	-0.020 (0.016)	-0.091*** (0.019)	0.055 (0.036)	-0.016 (0.036)	-0.109*** (0.022)
45-49	0.017 (0.049)	0.019 (0.022)	0.117** (0.038)	0.002 (0.040)	-0.002 (0.016)	0.036 (0.031)	-0.046 (0.040)	0.034 (0.018)	0.139*** (0.029)	-0.055 (0.043)	0.019 (0.022)	0.083* (0.033)
50-54	-0.284*** (0.044)	-0.177*** (0.024)	-0.029 (0.033)	-0.282*** (0.043)	-0.147*** (0.020)	-0.113*** (0.031)	-0.261*** (0.042)	-0.095*** (0.020)	0.017 (0.028)	-0.177** (0.057)	-0.068** (0.024)	0.000 (0.038)
55-59	-0.546*** (0.089)	-0.421*** (0.030)	-0.213*** (0.043)	-0.629*** (0.048)	-0.346*** (0.022)	-0.160*** (0.030)	-0.630*** (0.045)	-0.315*** (0.021)	-0.154*** (0.032)	-0.277*** (0.039)	-0.208*** (0.022)	-0.091* (0.040)
Constant	4.113*** (0.038)	5.285*** (0.015)	6.042*** (0.025)	4.302*** (0.029)	5.390*** (0.012)	6.169*** (0.020)	4.496*** (0.028)	5.461*** (0.012)	6.183*** (0.017)	4.711*** (0.027)	5.552*** (0.016)	6.266*** (0.022)
N	24,767	24,767	24,767	34,066	34,066	34,066	28,327	28,327	28,327	13,607	13,607	13,607
Pseudo R ²	0.210	0.176	0.091	0.238	0.183	0.092	0.214	0.173	0.081	0.160	0.142	0.069
HIES-D: With education controls												
Ref: 40-44												
25-29	-0.125 (0.095)	-0.148*** (0.030)	-0.251*** (0.024)	-0.055 (0.066)	-0.176*** (0.023)	-0.283*** (0.030)	-0.251** (0.091)	-0.179*** (0.023)	-0.248*** (0.030)	-0.065 (0.072)	-0.145*** (0.022)	-0.283*** (0.042)
30-34	-0.014 (0.070)	-0.092*** (0.021)	-0.148*** (0.019)	-0.022 (0.036)	-0.138*** (0.017)	-0.169*** (0.016)	-0.101* (0.044)	-0.118*** (0.017)	-0.144*** (0.023)	-0.041 (0.062)	-0.090*** (0.025)	-0.140*** (0.024)
35-39	0.084 (0.051)	-0.010 (0.017)	-0.042* (0.019)	0.029 (0.035)	-0.075*** (0.015)	-0.102*** (0.021)	-0.016 (0.042)	-0.056*** (0.015)	-0.089*** (0.019)	-0.030 (0.051)	-0.031 (0.019)	-0.090*** (0.026)
45-49	0.070 (0.055)	0.071*** (0.020)	0.111*** (0.027)	0.022 (0.038)	0.028* (0.013)	0.089*** (0.020)	-0.020 (0.039)	0.075*** (0.017)	0.161*** (0.022)	-0.077 (0.060)	0.041* (0.017)	0.115*** (0.027)

50-54	-0.179 ** (0.061)	0.009 (0.023)	0.092 *** (0.024)	-0.163 *** (0.044)	-0.048 ** (0.018)	0.050 * (0.021)	-0.147 *** (0.043)	0.006 (0.018)	0.098 *** (0.025)	-0.168 ** (0.062)	0.001 (0.019)	0.116 *** (0.026)
55-59	-0.358 *** (0.090)	-0.149 *** (0.025)	-0.019 (0.033)	-0.416 *** (0.066)	-0.176 *** (0.021)	0.032 (0.026)	-0.475 *** (0.046)	-0.173 *** (0.022)	-0.011 (0.029)	-0.192 *** (0.057)	-0.074 ** (0.023)	0.050 (0.034)
Constant	4.100 *** (0.046)	5.274 *** (0.012)	5.949 *** (0.015)	4.297 *** (0.029)	5.385 *** (0.011)	6.025 *** (0.013)	4.473 *** (0.033)	5.439 *** (0.011)	6.073 *** (0.017)	4.762 *** (0.045)	5.541 *** (0.012)	6.127 *** (0.019)
N	24,767	24,767	24,767	34,066	34,066	34,066	28,327	28,327	28,327	13,607	13,607	13,607
Pseudo R ²	0.225	0.216	0.173	0.251	0.216	0.161	0.224	0.199	0.132	0.172	0.185	0.147

Notes: Control variables include family type, relationship to household head. Coefficients and standard errors for controlled variables are not shown to save space.
Robust standard errors in parentheses. HIES-D include the personal income of all individuals in all households from Household Income and Expenditure Survey.

* p<0.05, ** p<0.01, *** p<0.001 (two-tailed tests)

<Appendix Table 3> Mean log individual income by age group

	25-29	30-39	40-49	50-59	60-69	70-79
HIES-A: Labor income						
1999	4.751	4.923	4.932	4.739	4.255	4.292
2000	4.547	4.768	4.723	4.609	4.118	4.068
2001	4.604	4.767	4.809	4.591	4.256	4.189
2002	4.766	4.829	4.877	4.711	4.373	4.211
2003	4.516	4.660	4.701	4.559	4.030	3.096
2004	4.676	4.769	4.814	4.699	4.155	3.168
2005	4.761	4.812	4.879	4.715	4.222	3.812
2006	4.747	5.045	5.019	4.817	4.298	3.955
2007	4.943	5.156	5.120	4.957	4.316	4.001
2008	4.871	5.223	5.131	5.040	4.382	3.847
2009	4.950	5.167	5.145	4.945	4.253	3.772
2010	4.964	5.173	5.129	4.951	4.249	3.774
2011	5.108	5.233	5.175	4.903	4.280	3.587
2012	4.950	5.281	5.283	5.024	4.340	3.636
2013	4.935	5.328	5.366	5.045	4.409	3.796
2014	5.021	5.329	5.425	5.117	4.588	3.841
2015	5.022	5.293	5.391	5.183	4.546	3.841
2016	5.053	5.379	5.405	5.193	4.597	3.669
2017	5.318	5.466	5.510	5.359	4.685	3.813
2018	5.295	5.554	5.534	5.440	4.877	3.905
2019	5.360	5.571	5.641	5.490	4.987	3.948
HIES-D: Personal (Labor+Business) income						
2009	5.020	5.183	5.166	4.872	4.037	3.015
2010	5.060	5.184	5.183	4.909	4.058	2.953
2011	5.201	5.227	5.237	4.909	4.077	3.041
2012	5.160	5.271	5.295	5.042	4.210	3.200
2013	5.144	5.287	5.351	5.063	4.236	3.233
2014	5.129	5.318	5.370	5.103	4.381	3.239
2015	5.186	5.288	5.381	5.128	4.336	3.334
2016	5.238	5.347	5.415	5.174	4.420	3.308
2017	5.331	5.428	5.477	5.284	4.644	3.648
2018	5.425	5.499	5.516	5.365	4.766	3.689
2019	5.377	5.552	5.556	5.413	4.841	3.805

Notes: HIES-A includes the labor income of household heads and their spouses in city households with at least 2 family members. HIES-D includes the personal income of all individuals in all households. Inflation adjusted to 2016 constant KRW.

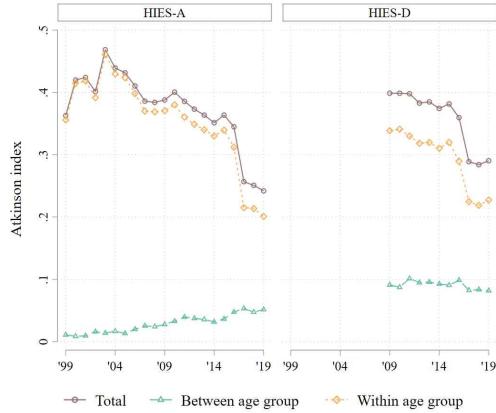
<Appendix Table 4> Yearly individual income growth rate(%) of conditional quantiles

	Q10	Q20	Q30	Q40	Q50	Q60	Q70	Q80	Q90
HIES-A, between 2009-2010 and 2017-2019: Without education controls									
25-29	5.8	6.4	5.2	4.1	4.3	4.3	3.3	1.7	1.6
30-34	6.9	5.4	4.3	3.3	2.7	2.3	1.9	1.7	0.8
35-39	8.2	6.3	5.0	3.7	2.7	2.1	1.8	1.8	0.7
40-44	10.1	6.8	5.5	4.0	3.1	3.0	2.8	2.8	1.9
45-49	8.0	6.0	5.0	4.1	3.4	3.1	2.8	2.9	2.3
50-54	9.8	7.6	6.5	5.6	4.9	4.6	3.6	3.3	2.6
55-59	10.1	7.9	7.4	6.6	5.6	5.1	4.8	4.0	2.9
HIES-A, between 2009-2010 and 2017-2019: With education controls									
25-29	4.5	6.6	5.9	4.8	5.0	4.0	3.2	3.1	3.5
30-34	6.6	5.2	4.4	3.9	3.6	2.9	2.1	1.7	1.7
35-39	8.2	6.2	4.8	3.9	3.2	2.6	2.2	1.8	1.5
40-44	10.3	6.3	5.1	4.1	3.5	3.0	2.7	2.2	1.9
45-49	8.7	5.4	4.7	3.9	3.2	2.5	2.0	1.9	2.1
50-54	9.3	6.8	5.3	4.2	3.7	3.0	2.5	2.1	2.1
55-59	9.1	7.3	6.6	5.1	4.3	3.6	3.1	2.9	1.9
HIES-D, between 2009-2010 and 2017-2019: Without education controls									
25-29	7.2	5.8	4.3	3.0	2.5	1.8	1.6	1.2	0.4
30-34	5.9	4.3	3.7	3.0	2.6	2.3	2.2	2.1	1.2
35-39	5.7	4.4	3.6	2.8	2.2	2.0	1.6	1.7	1.2
40-44	6.9	4.7	4.1	3.2	2.9	2.4	2.2	2.3	2.3
45-49	5.9	4.6	4.0	3.5	3.1	2.7	2.6	2.5	2.3
50-54	8.1	6.4	5.0	5.0	4.3	3.8	3.6	3.4	3.1
55-59	9.8	7.6	6.6	5.7	5.3	4.6	4.1	4.1	3.6
HIES-D, between 2009-2010 and 2017-2019: With education controls									
25-29	7.4	6.0	4.5	3.9	2.9	2.4	2.0	1.9	1.8
30-34	6.9	4.8	3.9	3.4	3.0	2.6	2.6	2.2	2.1
35-39	6.1	4.7	3.7	3.2	2.7	2.4	2.3	1.9	1.5
40-44	7.5	4.7	4.0	3.6	2.9	2.5	2.3	2.2	2.0
45-49	5.8	3.7	3.7	3.4	2.7	2.3	2.2	2.0	2.2
50-54	7.7	5.1	4.3	3.7	3.0	2.5	2.5	2.4	2.4
55-59	9.1	6.2	5.0	4.6	3.7	3.3	3.0	2.7	2.5

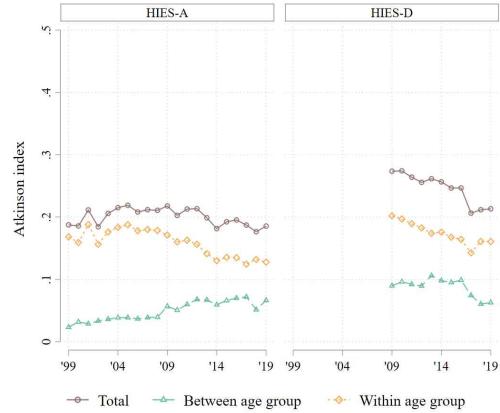
Notes: Growth rate for each age group calculated from conditional quantile regression results in Figure 6 and Figure 7. HIES-A includes the labor income of household heads and their spouses in city households with at least 2 family members. HIES-D includes the personal income of all individuals in all households from Household Income and Expenditure Survey.

<Appendix Figure 1> Between- and within- age group individual income inequality by sex

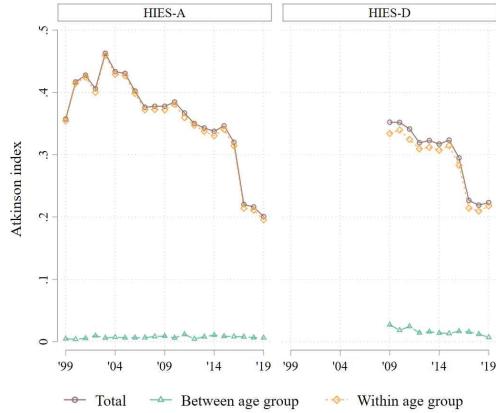
a. Women, 20-79



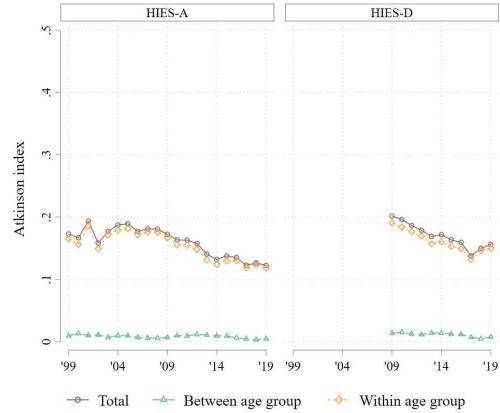
b. Men, 20-79



c. Women, 25-59



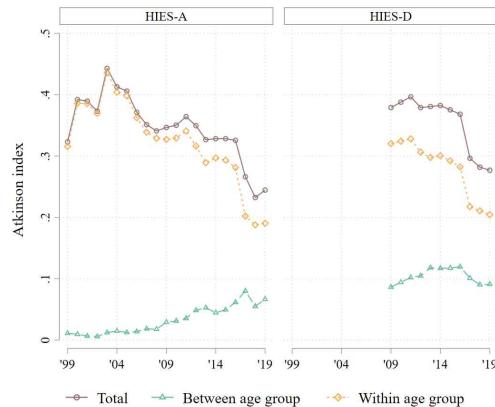
d. Men, 25-59



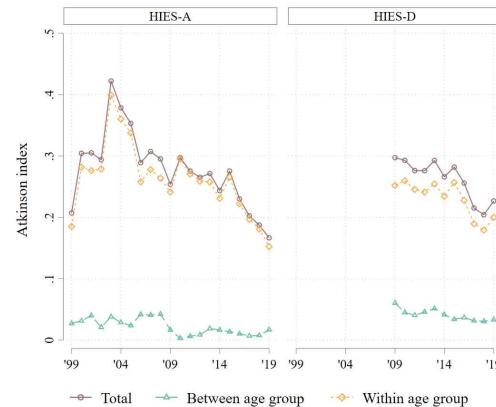
Notes: Atkinson inequality index with income aversion parameter of 1. Between and within age group inequality is based on 5 year incremental age indicator variable. Total = Between + Within - Between \times Within. HIES-A shows the labor income of household heads and their spouses in city households with at least 2 family members. HIES-D shows the personal income of all individuals in all households. HIES series are based on Household Income and Expenditure Survey.

<Appendix Figure 2> Between- and within- age group individual income inequality by levels of education

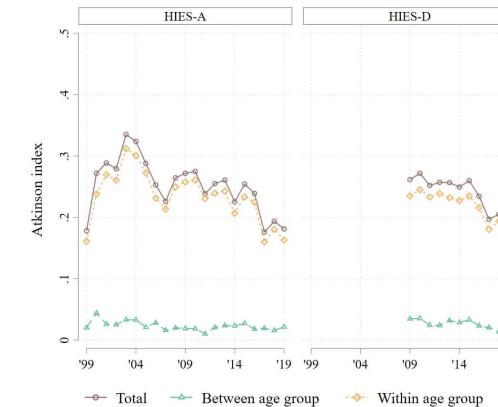
a. HSG and less. 20-79



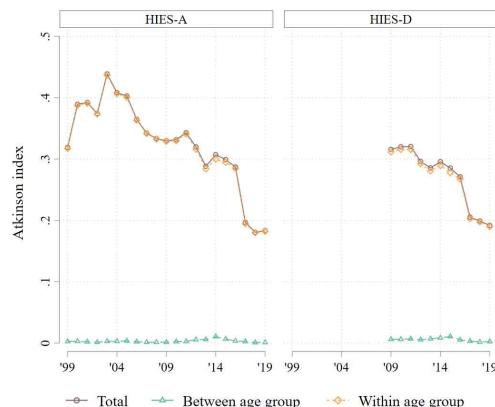
b. Some college. 20-79



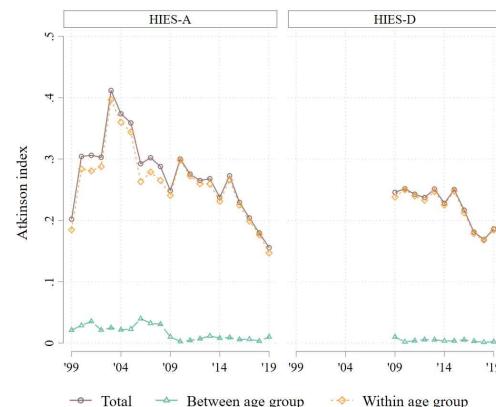
c. BA and more. 20-79



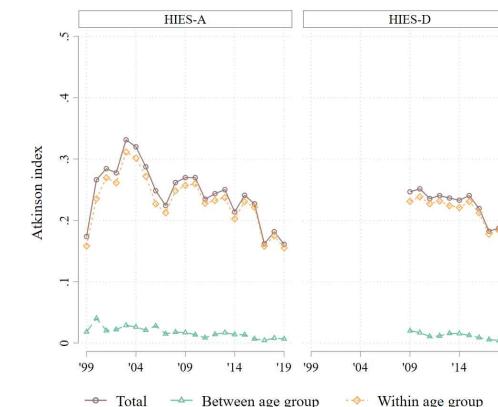
d. HSG and less. 25-59



e. Some college. 25-59

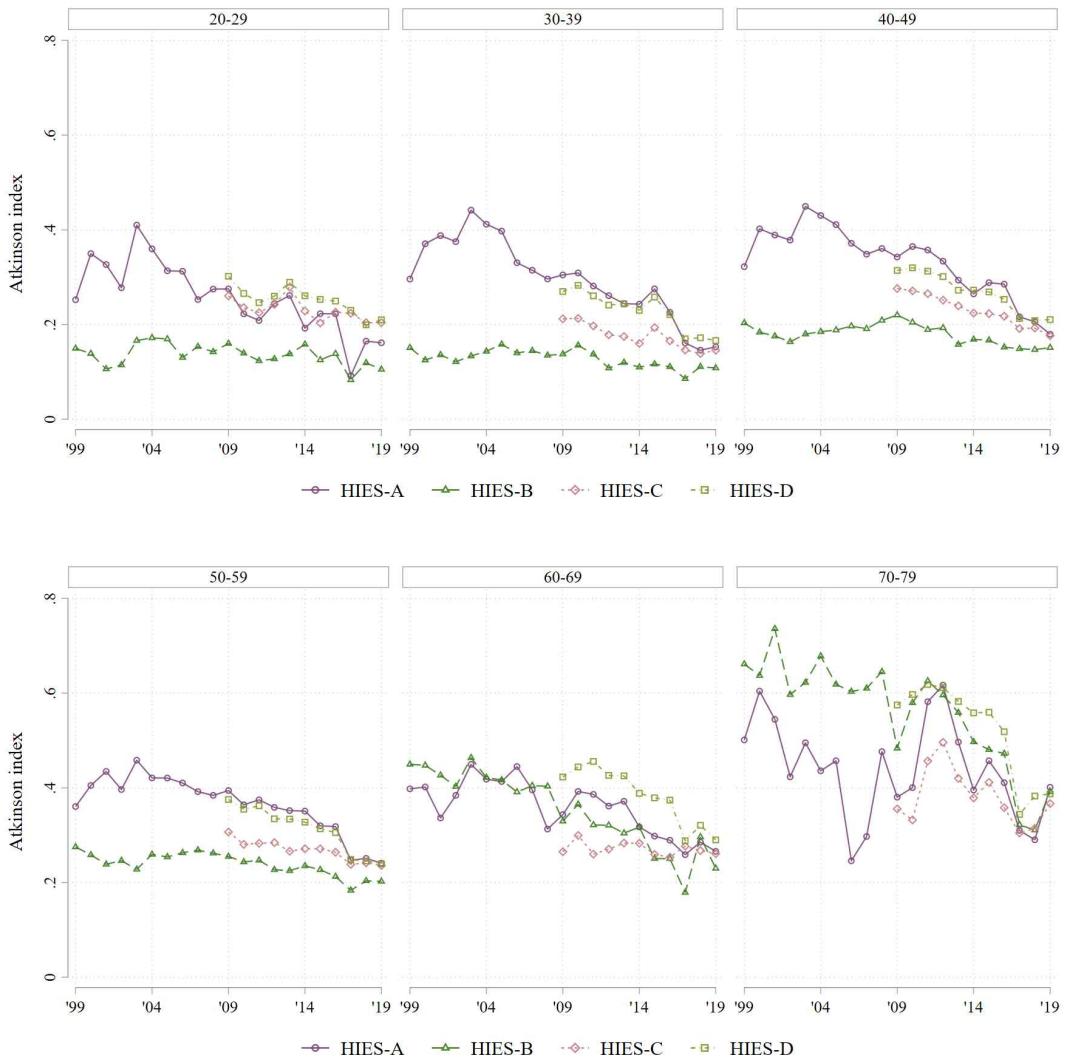


f. BA and more. 25-59



Notes: Atkinson inequality index with income aversion parameter of 1. Between and within age group inequality is based on 5 year incremental age indicator variable. Total = Between + Within - Between \times Within. HIES-A shows the labor income of household heads and their spouses in city households with at least 2 family members. HIES-D shows the personal income of all individuals in all households. HSG refers to high school graduates, and BA refers to bachelor's degree holders.

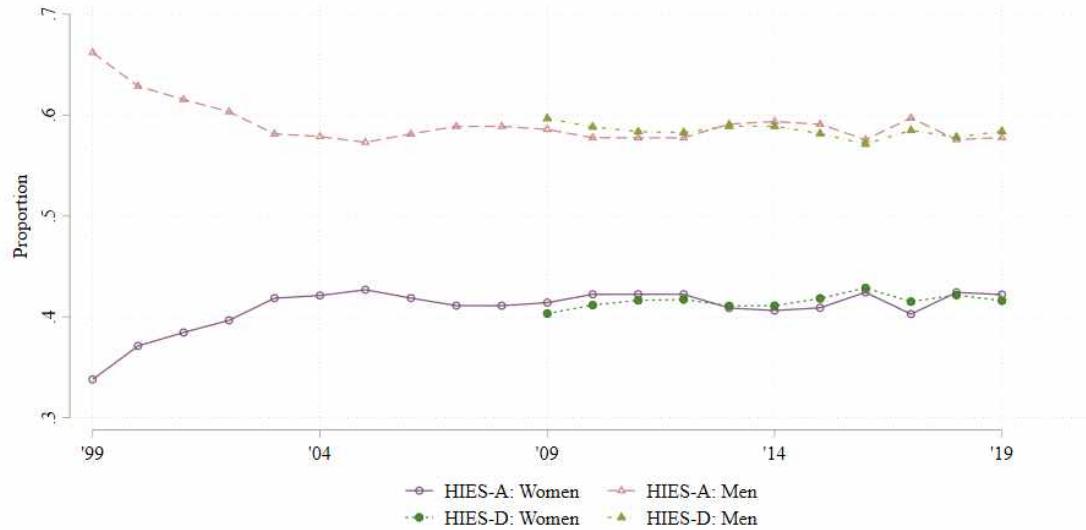
<Appendix Figure 3> Individual income inequality by age group



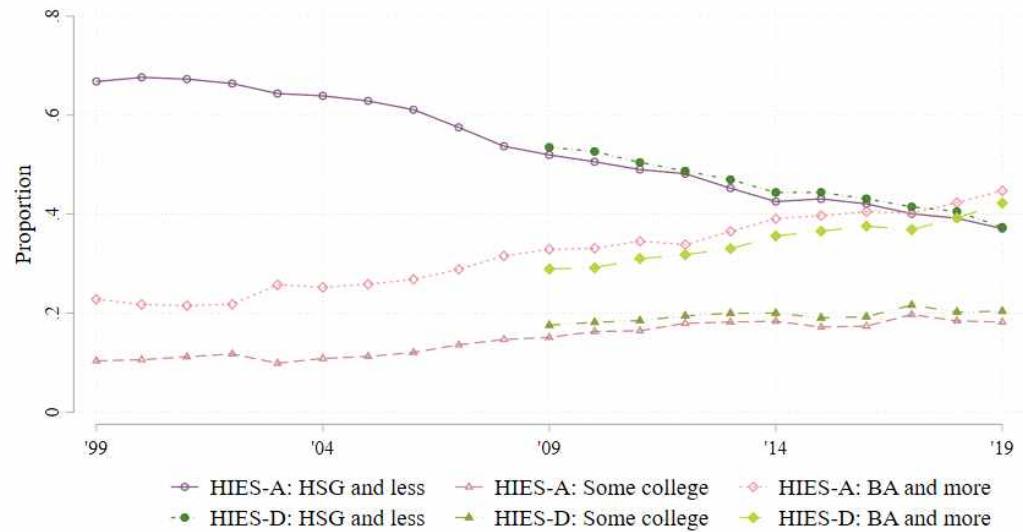
Notes: Atkinson inequality index with income aversion parameter of 1. HIES-A shows the labor income of household heads and their spouses in city households with at least 2 family members. HIES-B shows the personal income of household heads in city households with at least 2 family members. HIES-C shows labor income of all individuals in all households. HIES-D shows the personal income of all individuals in all households. All series are based on Household Income and Expenditure Survey.

<Appendix Figure 4> Proportion by sex and levels of education among 25-59 year old employed workers with positive income

a. Sex



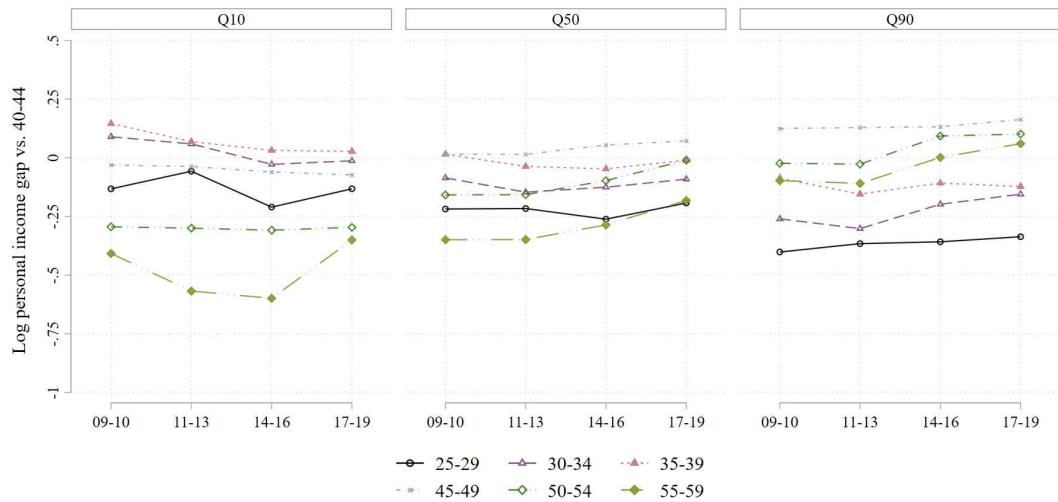
b. Education



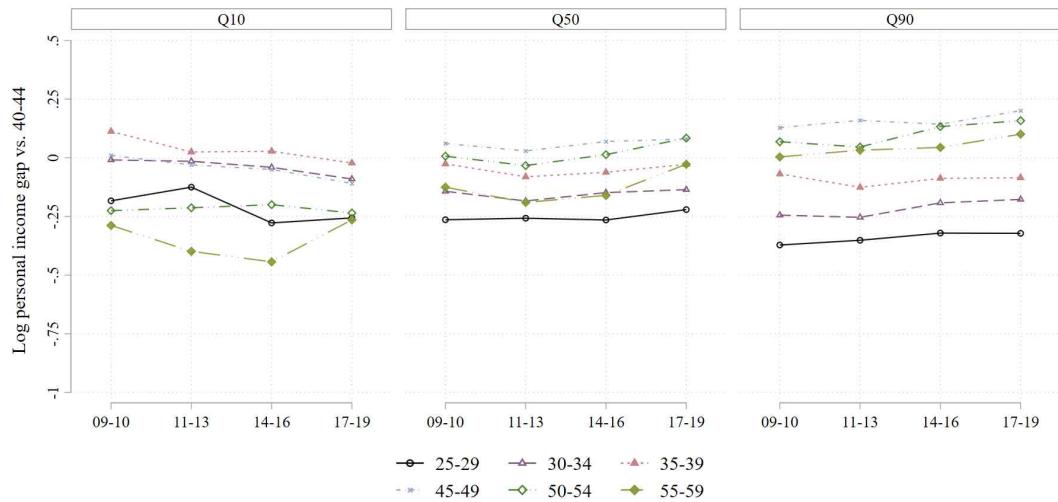
Notes: HIES-A refers to household heads and their spouses in city households with at least 2 family members from Household Income and Expenditure Survey. HIES-B includes all individuals of all households from the same data. HSG refers to high school graduates and BA refers to bachelor's degree holders.

<Appendix Figure 5> Estimated log personal income gap across conditional quantiles relative to
40-44 year old among men, HIES-D

a. Without education controls



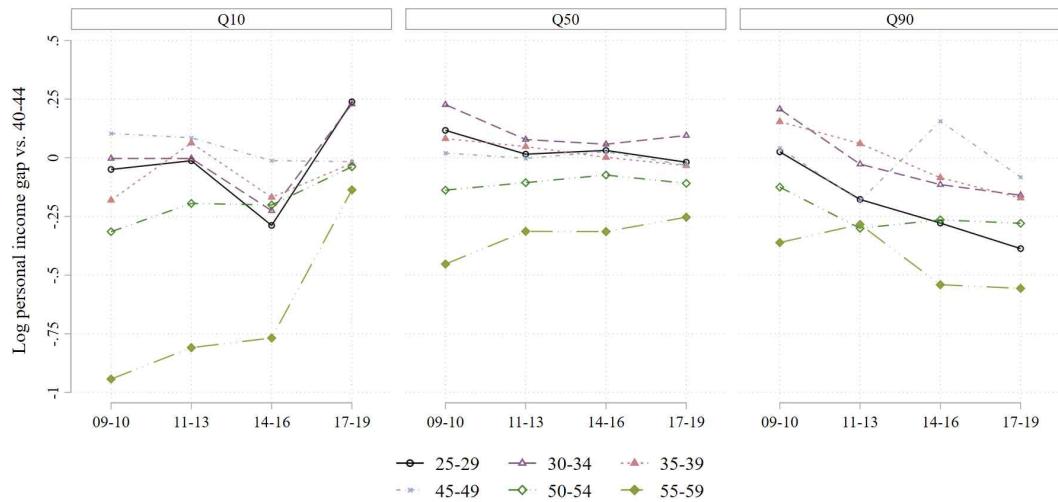
b. With education controls



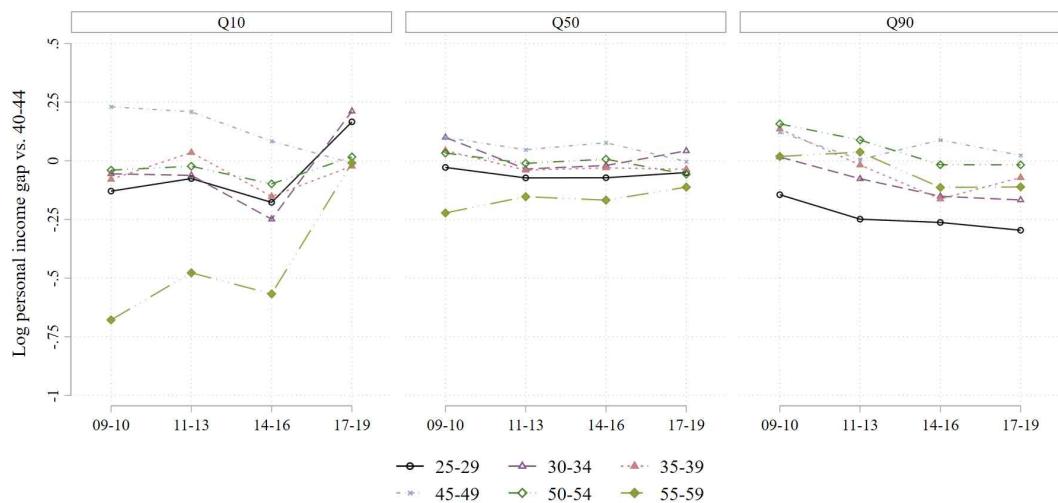
Notes: Control variables include sex, family type, relationship to household head. HIES-D includes all individuals of all households from Household Income and Expenditure Survey.

<Appendix Figure 6> Estimated log personal income gap across conditional quantiles relative to
40-44 year old among women, HIES-D

a. Without education controls



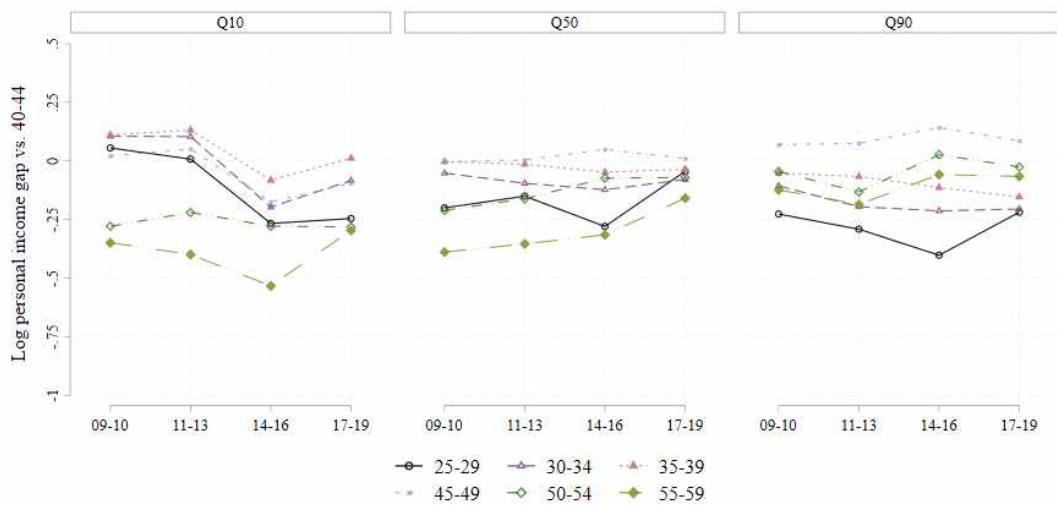
b. With education controls



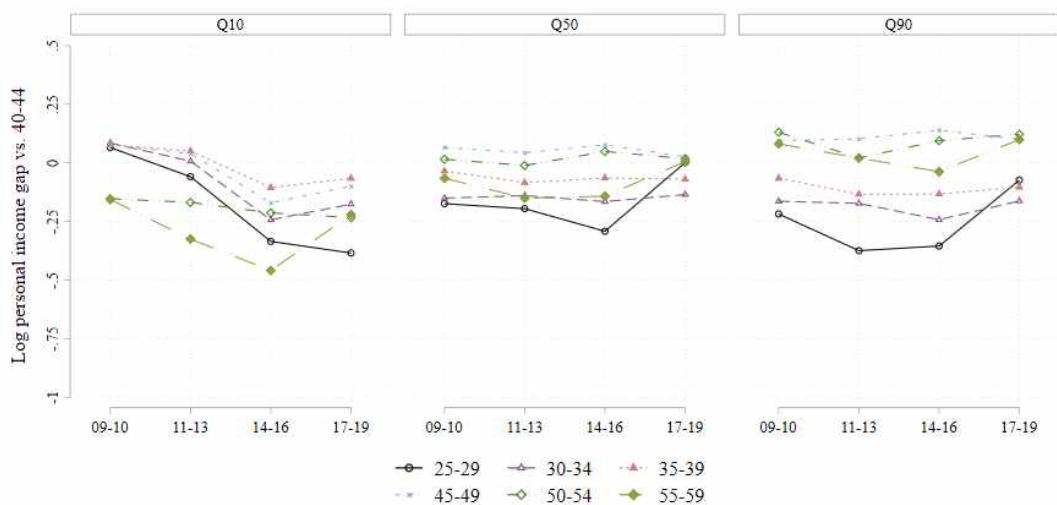
Notes: Control variables include sex, family type, relationship to household head. HIES-D includes all individuals of all households from Household Income and Expenditure Survey.

<Appendix Figure 7> Estimated log labor income gap across conditional quantiles relative to 40-44 year olds, HIES-A.

a. Without education controls



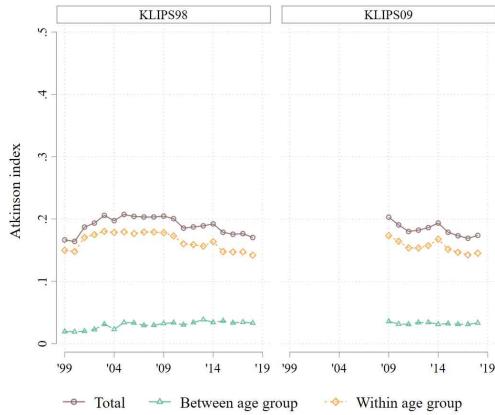
b. With education controls



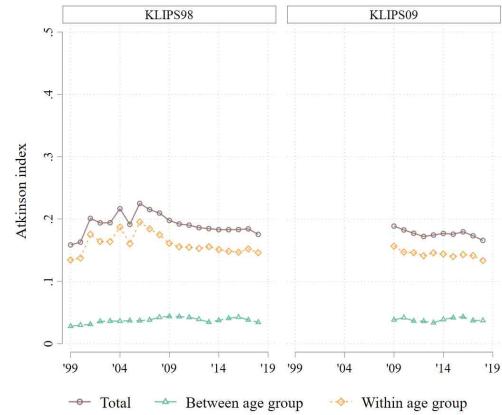
Notes: Control variables include sex, family type, relationship to household head. HIES-A refers to household heads and their spouses in city households with at least 2 family members from Household Income and Expenditure Survey.

<Appendix Figure 8> Between- and within- age group personal income inequality by sex: KLIPS

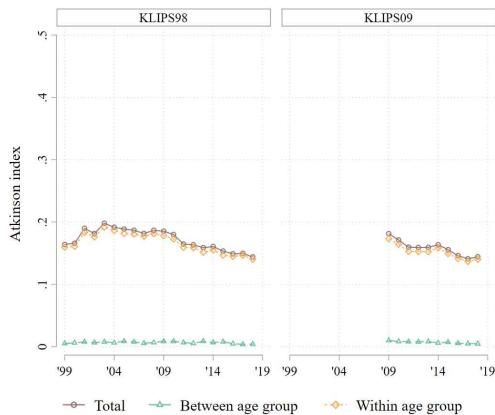
a. Women, 20-79



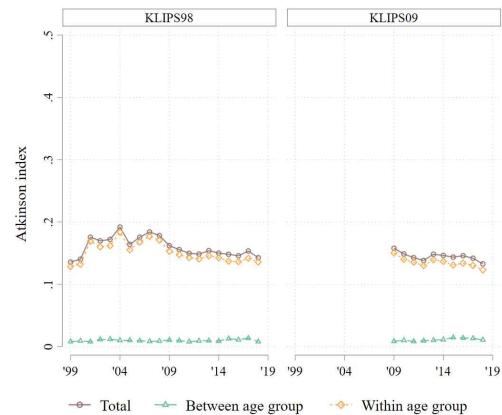
b. Men, 20-79



c. Women, 25-59



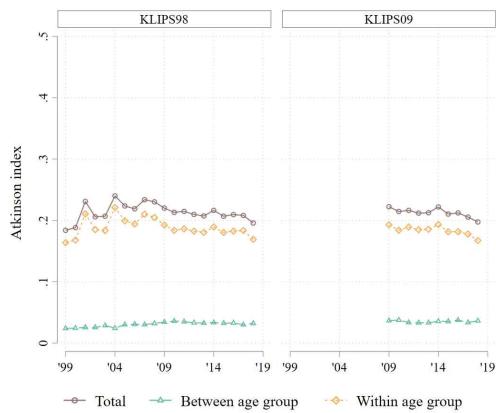
d. Men, 25-59



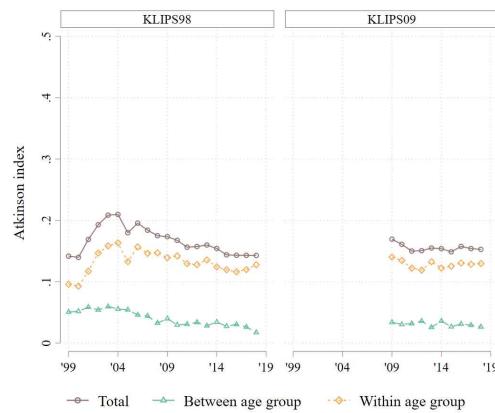
Notes: Atkinson inequality index with income aversion parameter of 1. Between and within age group inequality is based on 5 year incremental age indicator variable. Total = Between + Within - Between \times Within.

<Appendix Figure 9> Between- and within- age group personal income inequality by levels of education: KLIPS

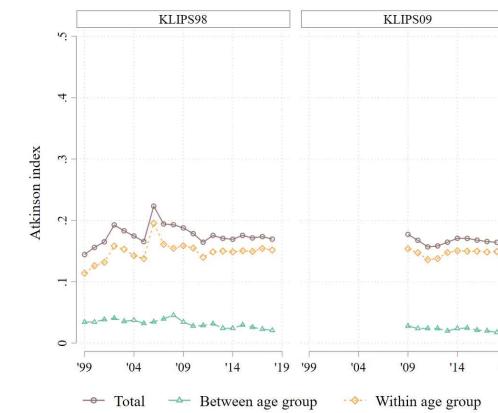
a. HSG and less. 20-79



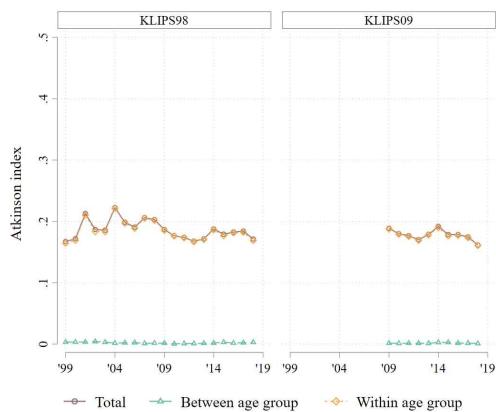
b. Some college. 20-79



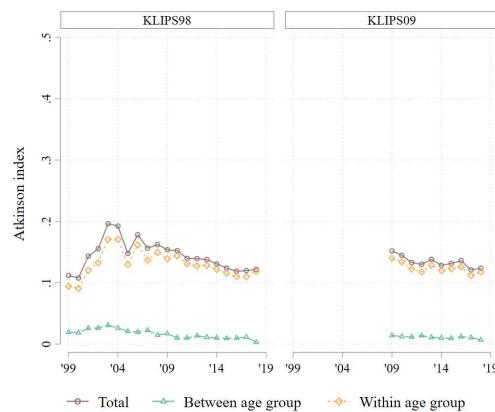
c. BA and more. 20-79



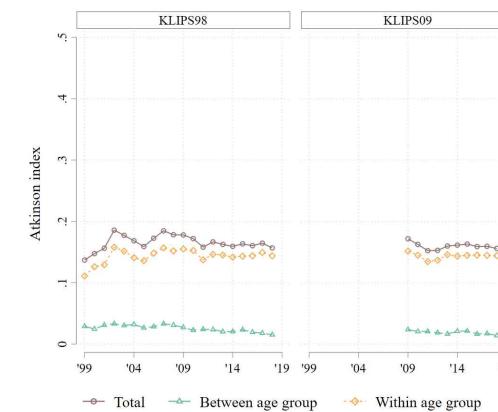
d. HSG and less. 25-59



e. Some college. 25-59



f. BA and more. 25-59



Notes: Atkinson inequality index with income aversion parameter of 1. Between and within age group inequality is based on 5 year incremental age indicator variable.
 Total = Between + Within - Between × Within.