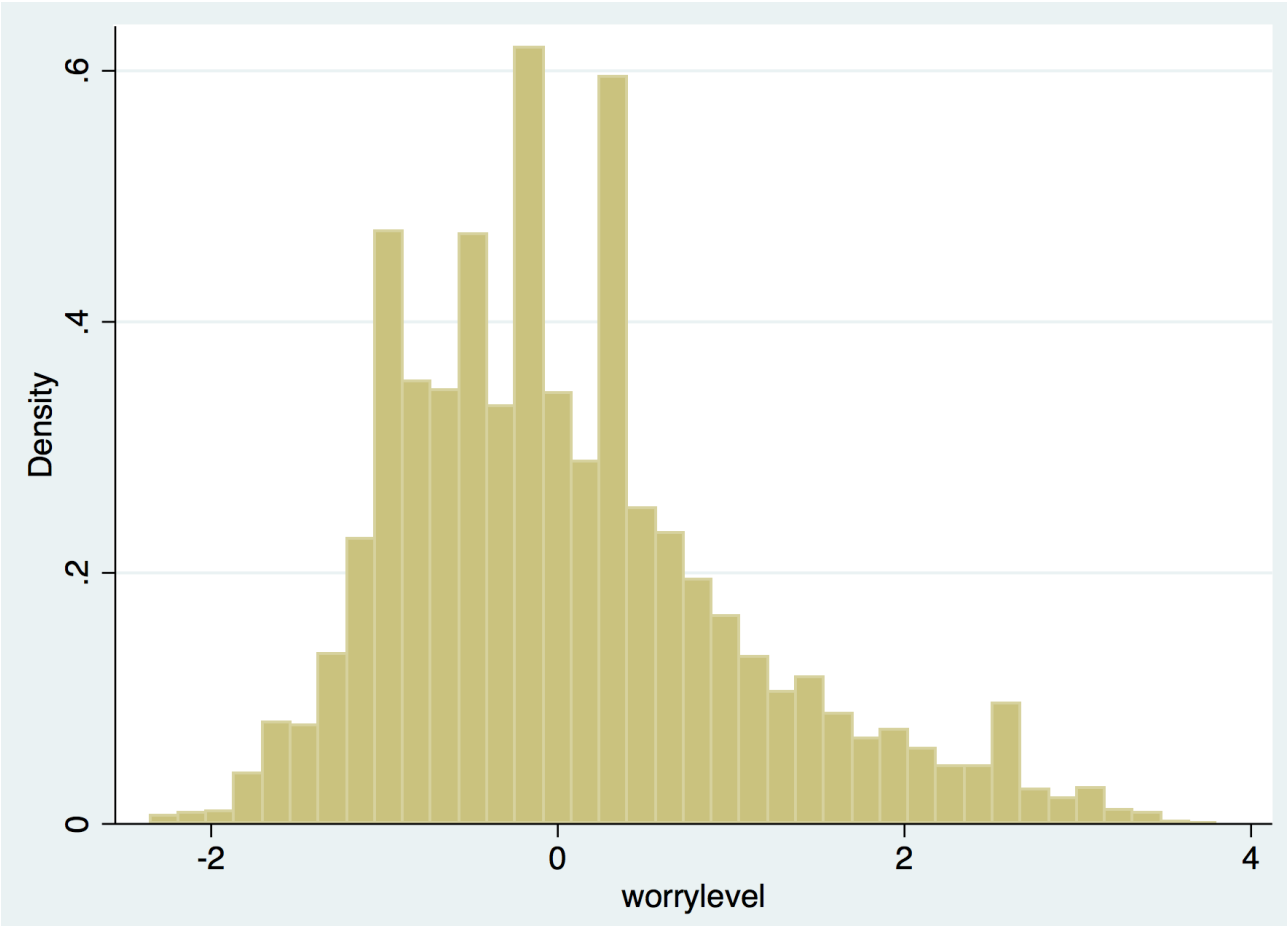


Oppgave A.

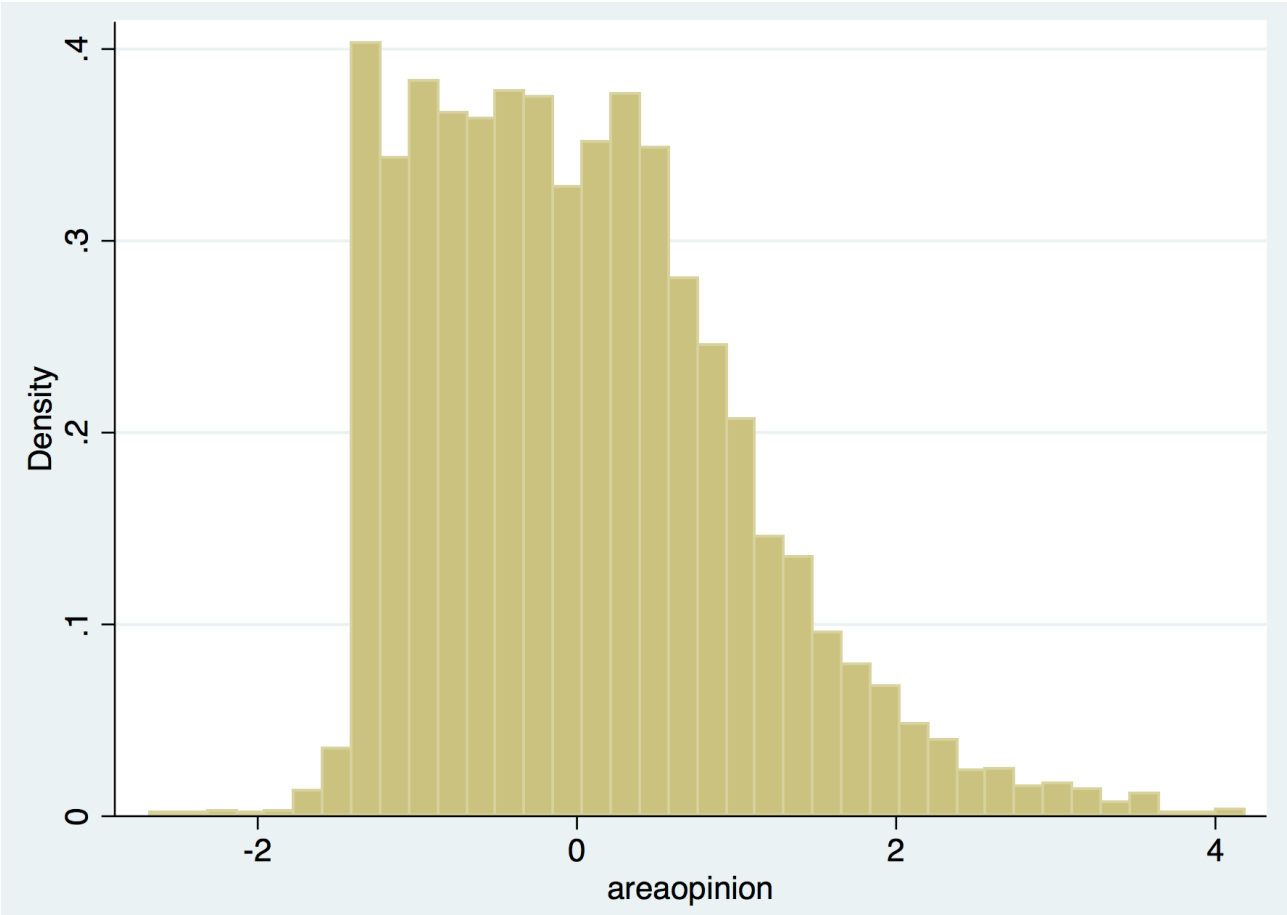
Utvalgsgjennomsnitt og utvalgsvarsians

Variable	Obs	Mean	Std. Dev.	Min	Max
worrylevel	7224	.0593664	1.000966	-2.350291	3.805476
areaopinion	7224	.0244044	.9834493	-2.673468	4.188264
victim12m	7224	.2140089	.4101614	0	1
female	7224	.5264396	.499335	0	1
age	7224	48.93203	16.58962	16	94
eductype	7224	1.422896	.5661372	1	3

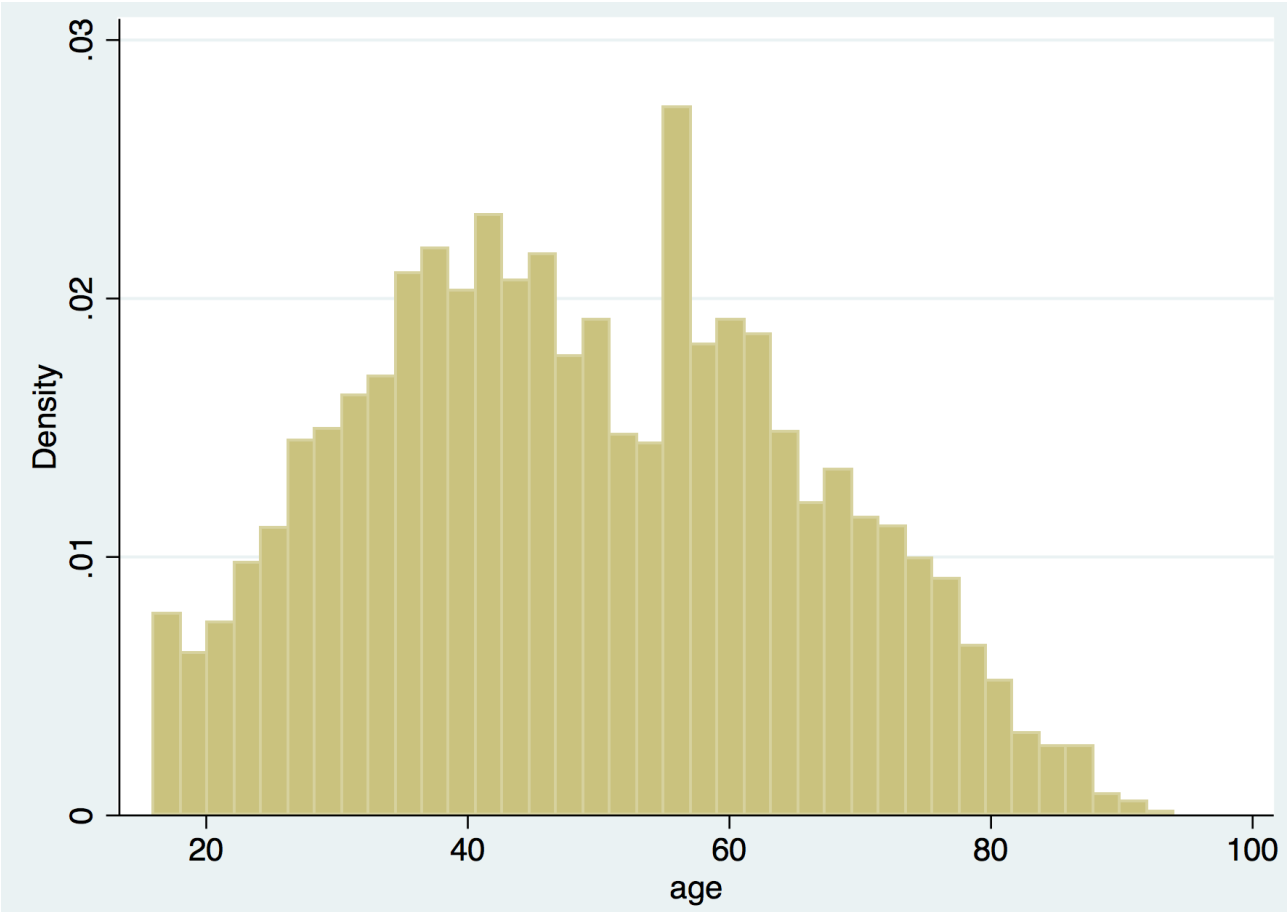
Histogram Worrylevel



Histogram Areaopinion



Histogram age



Oppgave C. Utvalgskorrelasjon

	worryl~l	areaop~n	victim12m	female	age	basice~c	higher~c	othere~c
worrylevel	1.0000							
areaopinion	0.3040	1.0000						
victim12m	0.0369	0.2220	1.0000					
female	0.2996	-0.0041	0.0001	1.0000				
age	-0.1045	-0.2039	-0.1905	-0.0601	1.0000			
basiceduc	0.0626	0.0105	-0.0050	-0.0069	0.0784	1.0000		
highereduc	-0.0759	-0.0118	0.0180	0.0148	-0.1074	-0.9209	1.0000	
othereduc	0.0297	0.0025	-0.0318	-0.0192	0.0678	-0.2521	-0.1451	1.0000

Oppgave D.

i) $worrylevel_i = B_1 + B_2 areaopinion + u_i$

Source	SS	df	MS	Number of obs = 7224		
Model	668.601987	1	668.601987	F(1, 7222) = 735.14		
Residual	6568.35838	7222	.909492991	Prob > F = 0.0000		
Total	7236.96037	7223	1.00193277	R-squared = 0.0924		
				Adj R-squared = 0.0923		
				Root MSE = .95367		

worrylevel	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
areaopinion	.3093663	.0114101	27.11	0.000	.2869992	.3317334
_cons	.0518165	.0112239	4.62	0.000	.0298144	.0738187

ii) $worrylevel_i = B_1 + B_2 victim12m_i + u_i$

Source	SS	df	MS	Number of obs = 7224		
Model	9.84920347	1	9.84920347	F(1, 7222) = 9.84		
Residual	7227.11116	7222	1.00070772	Prob > F = 0.0017		
Total	7236.96037	7223	1.00193277	R-squared = 0.0014		
				Adj R-squared = 0.0012		
				Root MSE = 1.0004		

worrylevel	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
victim12m	.0900299	.0286972	3.14	0.002	.033775	.1462849
_cons	.0400992	.0132757	3.02	0.003	.0140751	.0661234

$$\text{iii)worrylevel}_i = B_1 + B_2\text{female}_i + u_i$$

Source	SS	df	MS	Number of obs =	7224
Model	649.798625	1	649.798625	F(1, 7222) =	712.42
Residual	6587.16174	7222	.912096613	Prob > F =	0.0000
				R-squared =	0.0898
				Adj R-squared =	0.0897
Total	7236.96037	7223	1.00193277	Root MSE =	.95504

worrylevel	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
female	.6006736	.0225045	26.69	0.000	.5565582	.6447891
_cons	-.256852	.0163284	-15.73	0.000	-.2888604	-.2248435

$$\text{iv)worrylevel}_i = B_1 + B_2\text{age}_i + u_i$$

Source	SS	df	MS	Number of obs =	7224
Model	78.9910374	1	78.9910374	F(1, 7222) =	79.70
Residual	7157.96933	7222	.991133942	Prob > F =	0.0000
				R-squared =	0.0109
				Adj R-squared =	0.0108
Total	7236.96037	7223	1.00193277	Root MSE =	.99556

worrylevel	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
age	-.0063037	.0007061	-8.93	0.000	-.0076879	-.0049195
_cons	.367818	.0364828	10.08	0.000	.2963011	.4393348

$$\text{v) worrylevel}_i = B_1 + B_2\text{highereduc}_i + B_3\text{othereduc}_i + u_i$$

Source	SS	df	MS	Number of obs =	7224
Model	44.2877491	2	22.1438746	F(2, 7221) =	22.23
Residual	7192.67262	7221	.996077083	Prob > F =	0.0000
				R-squared =	0.0061
				Adj R-squared =	0.0058
Total	7236.96037	7223	1.00193277	Root MSE =	.99804

worrylevel	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
highereduc	-.15388	.0249408	-6.17	0.000	-.2027712	-.1049887
othereduc	.0994791	.0619117	1.61	0.108	-.0218861	.2208442
_cons	.1088827	.0149696	7.27	0.000	.0795379	.1382275

Oppgave E.

$$\text{worrylevel}_i = B_1 + B_2\text{areaopinion}_i + B_3\text{victim12}_i + B_4\text{female}_i + B_5\text{age} + B_6\text{highereduc}_i + B_7\text{othereduc}_i + u_i$$

Source	SS	df	MS	Number of obs =	7224
Model	1388.20501	6	231.367502	F(6, 7217) =	285.49
Residual	5848.75535	7217	.810413656	Prob > F =	0.0000
				R-squared =	0.1918
				Adj R-squared =	0.1911
Total	7236.96037	7223	1.00193277	Root MSE =	.90023

worrylevel	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
areaopinion	.3092316	.0112164	27.57	0.000	.2872441	.331219
victim12m	-.0885113	.0268056	-3.30	0.001	-.141058	-.0359645
female	.6014255	.0212579	28.29	0.000	.5597538	.6430973
age	-.0024976	.000666	-3.75	0.000	-.0038031	-.001192
highereduc	-.161788	.0226198	-7.15	0.000	-.2061294	-.1174466
othereduc	.1314548	.0559471	2.35	0.019	.0217822	.2411274
_cons	-.0726067	.0393991	-1.84	0.065	-.1498405	.004627

Oppgave G.

$$u_i^2 = A_1 + A_2\text{areaopinion}_i + A_3\text{victim12}_i + A_4\text{female}_i + A_5\text{age} + A_6\text{highereduc}_i + A_7\text{othereduc}_i + w_i$$

Source	SS	df	MS	Number of obs =	7224
Model	288.010302	6	48.001717	F(6, 7217) =	25.16
Residual	13769.1559	7217	1.90787806	Prob > F =	0.0000
				R-squared =	0.0205
				Adj R-squared =	0.0197
Total	14057.1662	7223	1.94616728	Root MSE =	1.3813

uhatte2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
areaopinion	.0793338	.0172098	4.61	0.000	.0455975	.11307
victim12m	.0077755	.0411289	0.19	0.850	-.0728492	.0884002
female	.268263	.0326169	8.22	0.000	.2043243	.3322017
age	-.0024172	.0010219	-2.37	0.018	-.0044204	-.000414
highereduc	-.241017	.0347065	-6.94	0.000	-.3090519	-.1729821
othereduc	.0510139	.0858419	0.59	0.552	-.1172612	.2192891
_cons	.8646417	.0604516	14.30	0.000	.7461389	.9831446