1 Results

1.1 Uncertainty Analysis

Figure 1. Probability distribution of quantity of interest q

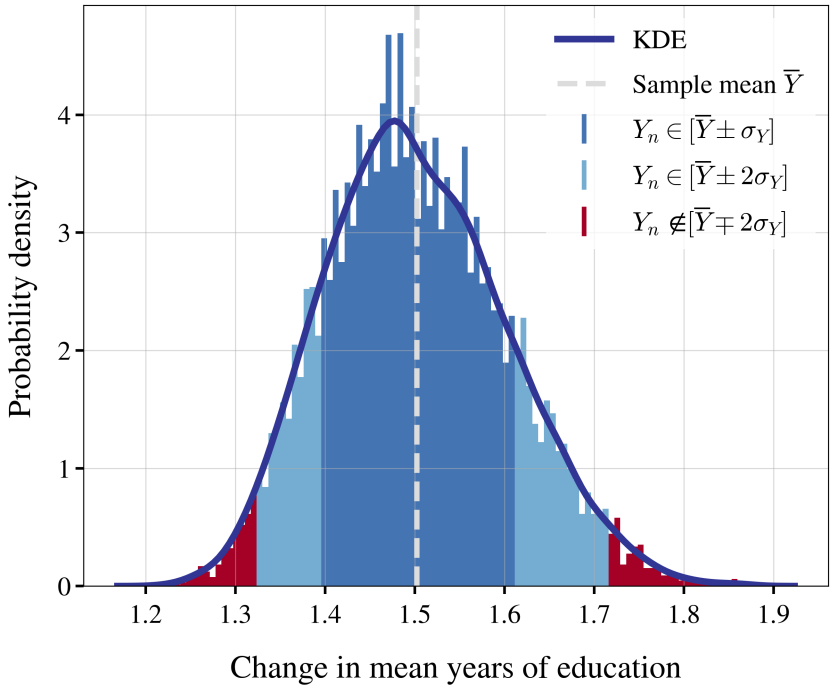
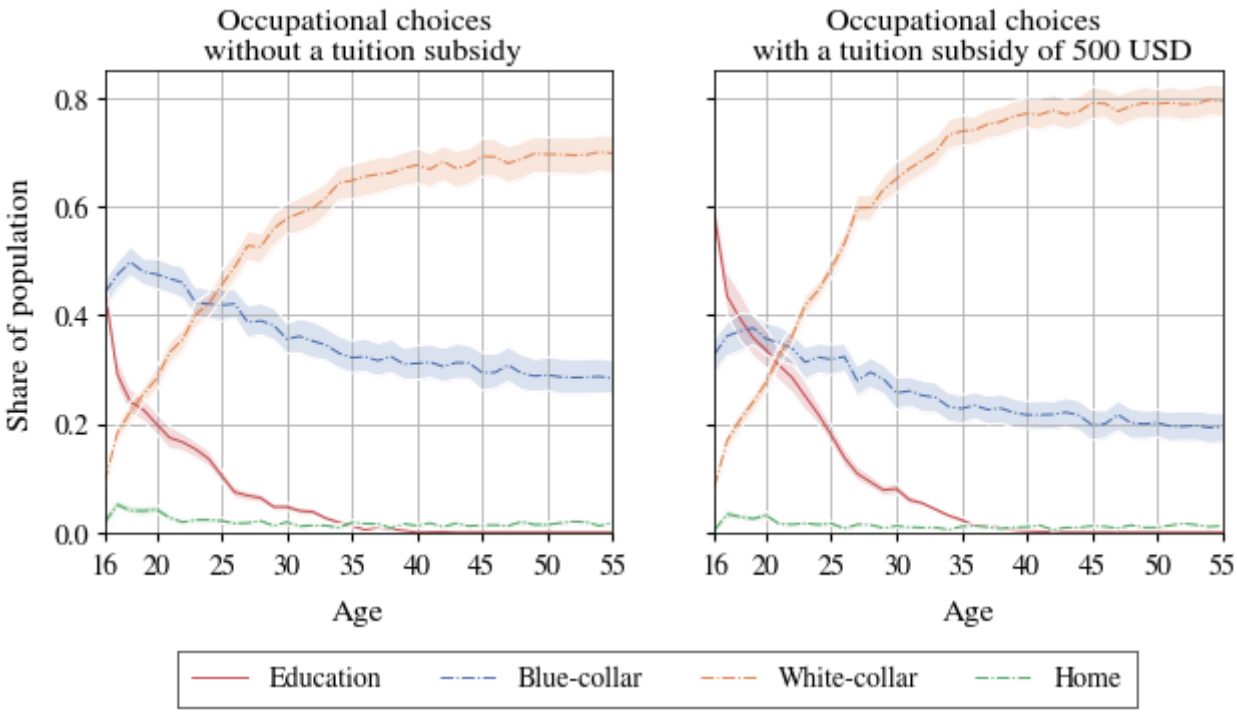


Figure 2. Comparison of shares of occupation decision over time between scenarios with cone plots



1.2 Experiment Ge and Menendez (2017)

Table 1. EE-based measures by Ge and Menendez (2017) for 100 trajectories

Parameter	$\mu_T^{*,full}$	$\mu_T^{*,ind}$	$\sigma_T^{*,full}$	$\sigma_T^{*,ind}$
General				
δ	53.40	0.00	69.23	0.09
Blue-collar				
β^b	3.55	0.05	4.38	0.07
β_e^b	39.84	0.05	49.69	0.07
β_b^b	77.21	0.05	90.23	0.07
β_{bb}^b	2616.50	0.05	3357.92	0.06
β_w^b	94.74	0.05	113.49	0.06
β_{ww}^b	1136.58	0.03	1405.94	0.04
White-collar				
β^w	5.07	0.05	6.42	0.06
β_e^w	90.25	0.07	111.50	0.08
β_w^w	82.88	0.05	103.66	0.07
β_{ww}^w	2444.13	0.06	3044.69	0.07
β_b^w	452.91	0.07	490.31	0.09
β_{bb}^w	4317.58	0.05	4851.54	0.06
Education				
β^e	0.00	0.09	0.00	0.10
β_{he}^e	0.00	0.11	0.00	0.13
β_{re}^e	0.00	0.04	0.000	0.09
Home				
β^h	0.00	0.04	0.00	0.05
Lower Triangular Cholesky Matrix				
c_1	27.94	0.07	33.72	0.08
c_2	31.89	0.05	38.58	0.06
c_3	0.00	0.06	0.00	0.07
c_4	0.00	0.04	0.00	0.09
$c_{1,2}$	12.41	0.06	14.33	0.08
$c_{1,3}$	0.00	0.09	0.00	0.10
$c_{2,3}$	0.00	0.05	0.00	0.06
$c_{1,4}$	0.00	0.04	0.00	0.05
$c_{2,4}$	0.00	0.03	0.00	0.03
$c_{3,4}$	0.00	0.04	0.00	0.05

1.3 Qualitative Sensitivity Analysis

Table 2. Mean absolute correlated and uncorrelated elementary effects (based on 100 subsamples in trajectory and radial design)

Parameter	$\mu_T^{*,c}$	$\mu_R^{*,c}$	$\mu_T^{*,u}$	$\mu_R^{*,u}$
General				
δ	17	23	476	415
Blue-collar				
β^b	1	3	43	88
β_e^b	11	14	406	443
β_b^b	25	51	688	1169
β_{bb}^b	871	934	15 540	17 860
β_w^b	29	48	73	143
β_{ww}^b	389	460	869	1183
White-collar				
β^w	1	3	50	117
β_e^w	26	28	943	852
β_w^w	24	47	718	1521
β_{ww}^w	933	997	12 257	18 069
β_b^w	131	127	309	356
β_{bb}^w	120	1352	2088	2477
Education				
β^e	0.0008	0.0002	0.001	0.003
β_{he}^e	0.0001	0.0002	0.001	0.001
β_{re}^e	0.0003	0.0002	0.0003	0.0006
Home				
β^h	0.0003	0.0003	0.000 02	0.000 02
Lower Triangular Cholesky Matrix				
c_1	8	16	18	37
c_2	8	11	22	24
c_3	0.0004	0.0004	0.0004	0.0007
c_4	0.0004	0.000 08	0.0002	0.0003
$c_{1,2}$	4	4	10	10
$c_{1,3}$	0.0005	0.0006	0.0006	0.0005
$c_{2,3}$	0.0003	0.0005	0.0006	0.001
$c_{1,4}$	0.000 04	0.000 05	0.0004	0.0005
$c_{2,4}$	0.0001	0.0002	0.0001	0.0002
$c_{3,4}$	0.0001	0.0001	0.000 08	0.0001

Figure 3. Sigma-normalized mean absolute Elementary Effects for trajectory design

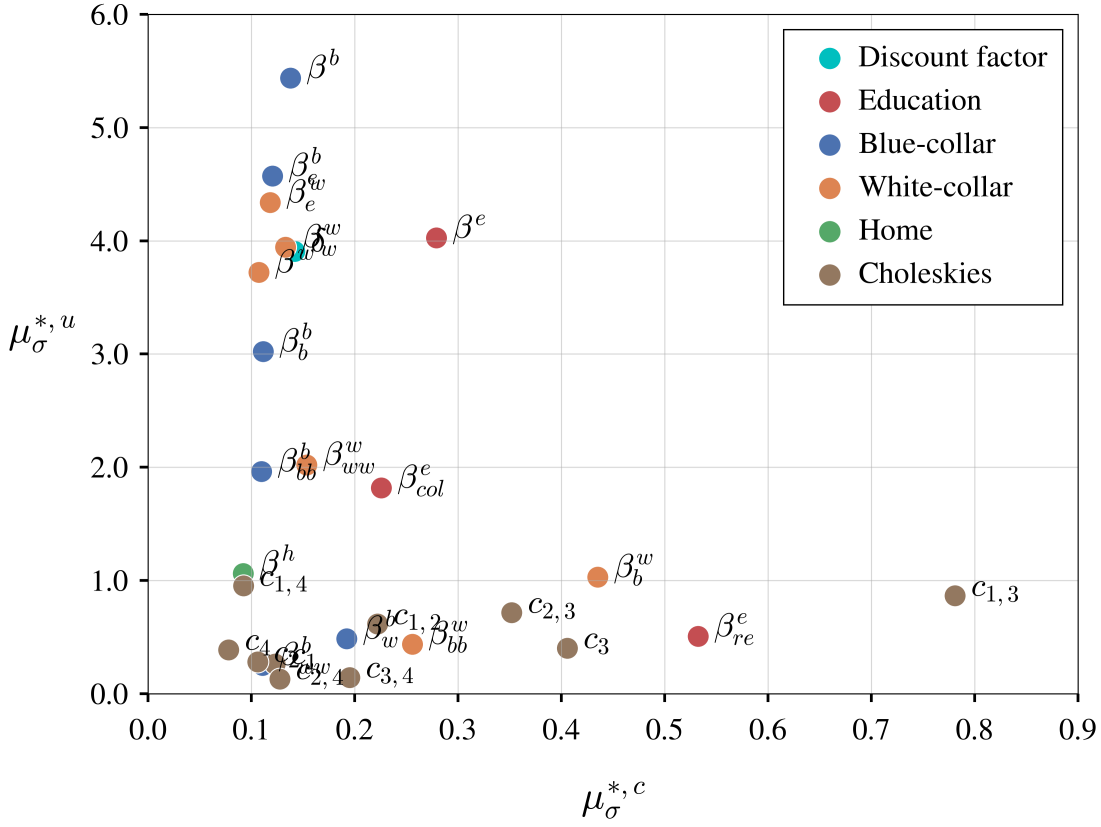
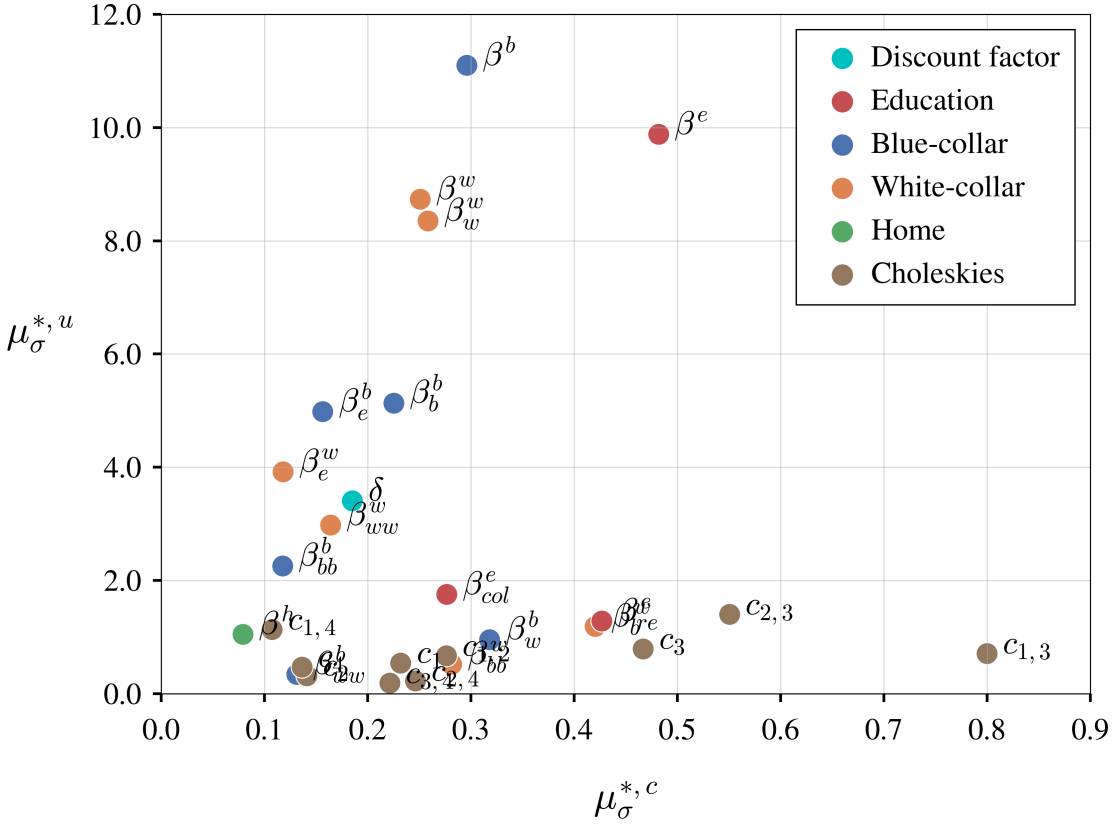


Figure 4. Sigma-normalized mean absolute Elementary Effects for radial design



References

Ge, Q. and M. Menendez (2017). Extending morris method for qualitative global sensitivity analysis of models with dependent inputs. *Reliability Engineering & System Safety 100*(162), 28–39.