

Key concepts & study plan



Experimental design



Data collection & processing



Model specification & estimation



Interpretation & application

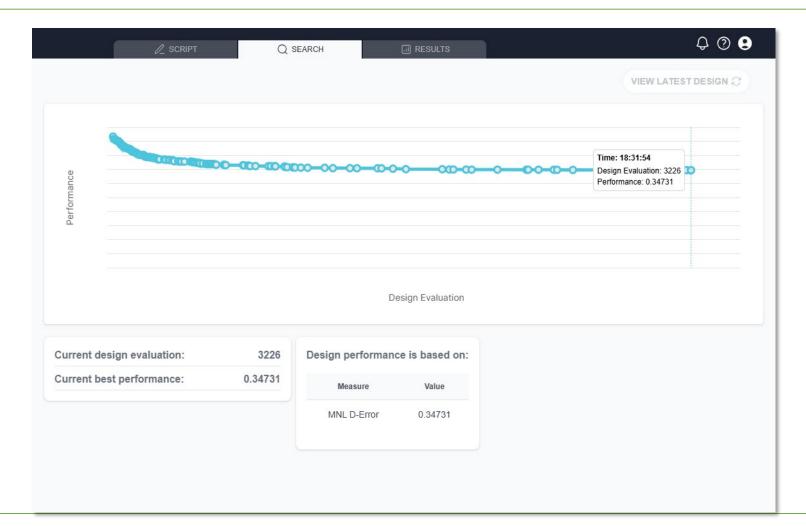
Features

- Flexibility
- Ease of use
- Information maximisation
- Advanced constraints
- No silly choice tasks
- Tailored designs

Step 1: Write a script

		Q (?)									
5) Undo 🖓 Redo 🕞 Copy 😰 Paste 🖉 Syntax Help										
	design										
2	;alts = nurse, hospital, home										
3											
4	•										
5	;err = (mn1,d) ;con										
7	;cond:										
8	if(nurse.who prof=1, nurse.risk=[10,25]),										
9	if(hospital.who prof=[1,2], hospital.risk=10),										
10	if(home.who self=0.5, home.risk=[6,10])										
11	;model:										
12	U(nurse) = asc_nurse										
13	+ b1.dummy * treatment[2,3,4,1] ? 1=one [base], 2=two, 3=three, 4=continuous										
14	+ b2.dummy * appointment[1,2,0] ? 0=none [base], 1=daily given, 2=daily not given										
15											
16	+ b4.dummy * comm_face[1,0] ? 0=unknown HCP [base], 1=known HCP										
17	+ b5.dummy * aftercare[1,2,3,0] ? 0=none [base], 1=nurse, 2=GP, 3=phone with nurse										
18	+ b6.dummy * risk[10,25,6] ? 6=1 in 6 [base], 10=1 in 10, 25=1 in 25										
19											
20 21	<pre>U(hospital) = asc_hospital + b1.dummy * treatment</pre>										
21	+ b1.dummy * treatment + b2.dummy * appointment										
23	+ b3.dummy * who prof										
24	+ b4.dummy + comm face										
25	+ b5.dummy * aftercare										
26	+ b6.dummy * risk										
27											
28	U(home) = b1.dummy * treatment										
29	+ b7.dummy * who_self[1,0.5] ? 0.5=half day training [base], 1=full day training										
30	+ b8.dummy * comm_phone[1,0] ? 0=unknown HCP [base], 1=known HCP										
31	+ b5.dummy * aftercare										
32	+ b6.dummy * risk										
33	\$										

Step 2: Search for a design



Step 3a: Obtain the design matrix

			Q SEAF	RCH	RESULTS			φ (୬ (
MATR	х	INS	PECT					VIEW LATEST DESI	GN 🤅
∎≹ Export to E	xcel 🎲	Export to Design						Design	
							_	— Design	
Design	Choice t	asks						Choice tasks	
Choice situation	Block	nurse.treatment	nurse.appointment	nurse.who_prof	nurse.comm_face	nurse.aftercare	nurse.risk	Correlations	0
1	1	3	2	0	1	2	25	Model — Model	
2	1	4	2	1	1	0	10	MNL	
3	1	1	0	2	0	2	6	Design properties	0
4	1	3	2	1	0	2	10	Covariance matrix	
5	1	3	0	0	1	0	6	Fisher matrix	
6	1	3	1	0	0	1	6	Probabilities	
7	1	1	1	1	0	2	10	Utilities	
8	1	1	1	2	1	3	25		
9	2	4	0	1	0	3	25		
10	2	1	1	1	0	0	25		

Step 3b: Inspect the choice tasks

RIX INSPECT INTER INSPECT INURSE INSPECT INICATION INICATION INICATION INICATION </th
Treatment per day Three Treatment per day Two Treatment per day Continuous pump Appointment times Daily not given Appointment times Daily given House No gives No drip Who gives NV drip Who gives NV drip Who gives NV drip
Treatment per day Three Treatment per day Two Treatment per day Continuous pump Appointment times Daily not given Appointment times Daily given House No gives No drip Who gives NV drip Who gives NV drip Who gives NV drip
ThreeTwoContinuous pumpAppointment timesAppointment timesContinuous pumpDaily not givenDaily givenWho gives IV dripWho gives IV dripWho gives IV dripWho gives IV drip
Daily not given Daily given Who gives IV drip Who gives IV drip
Healthcare prof communication Healthcare prof communication Healthcare prof on phone Known HCP Unknown HCP Unknown HCP
Aftercare Aftercare Aftercare GP Aftercare None
Risk of infection Risk of infection Risk of infection 1 in 25 chance 1 in 10 chance 1 in 6 chance
PREVIK 1/24 NEXT X FORMAT SELECTED CELL X REMOVE EMPTY ROW -