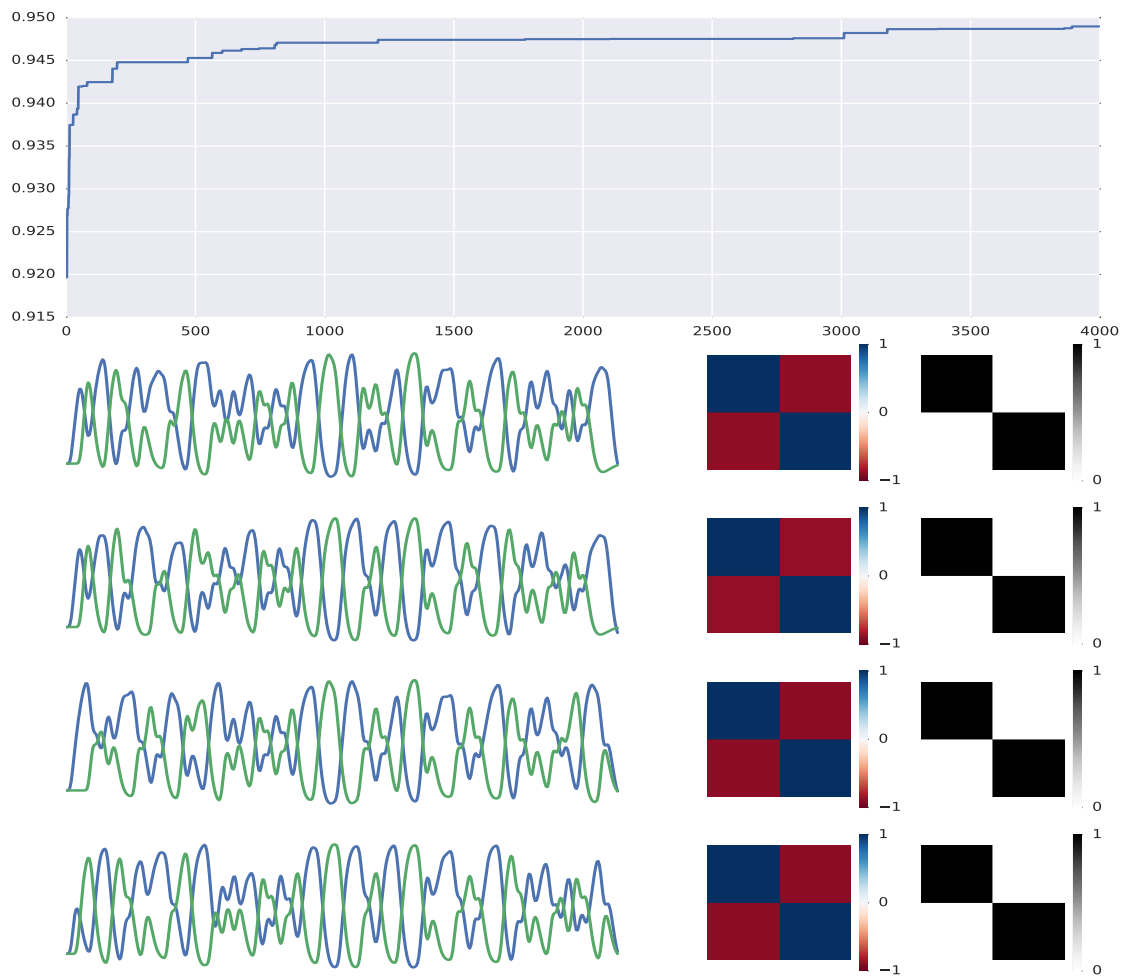


Selected designs

The following figure shows in the upper panel the optimisation score over the different generations. Below are the expected signals of the best designs from different families, more specific and in relation with the covariance matrix, designs 0, 4, 11, 17. Next to each design is the covariance matrix between the regressors, and the diagonal matrix with the eigenvalues of the design matrix.



Experimental settings

Repetition time (TR):	0.68
Number of trials:	125
Number of scans:	456
Number of different stimuli:	2
Stimulus probabilities:	0.6 0.4
Duration of stimulus (s)	1.85
Seconds before stimulus (in trial):	0.0
Seconds after stimulus (in trial)	0.4
Duration of trial (s):	2.25
Total experiment duration(s):	310
Number of stimuli between rest blocks	0
Duration of rest blocks (s):	0.0

Contrasts:	0.5 -0.5
ITI model:	exponential
minimum ITI:	0.0
mean ITI:	0.225
maximum ITI:	6.0
Hard probabilities:	False
Maximum number of repeated stimuli:	6
Resolution of design:	0.136
Assumed autocorrelation:	0.3

Optimalisation settings

Optimalisation weights (Fe,Fd,Fc,Ff):	0.0 0.1 0.4 0.5
Aoptimality?	True
Number of designs in each generation:	20
Number of immigrants in each generation:	4
Confounding order:	3
Convergence criterion:	1000
Number of precycles:	1000
Number of cycles:	4000
Percentage of mutations:	0.01
Seed:	3687001