03 cobre tables

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Table 1: Mean (sd) 10-fold cross validation results for Riemannian PLS on the COBRE dataset for the first five latent variables extracted. The full model metrics are the multivariate R^2 and RMSE on recovering both age and subject group. The group classification metrics look at the classification accuracy of the Riemannian PLS model for subject group only. All metrics are optimised as K = 3 (bold).

	Full model metrics		Group classification		
K	\$R^2\$	RMSE	Accuracy	Sensitivity	Specificity
1	0.15 (0.038)	1.27 (0.03)	0.62 (0.055)	0.68 (0.061)	0.56 (0.069)
2	$0.25 \ (0.035)$	1.2 (0.036)	$0.75 \ (0.045)$	$0.81\ (0.035)$	$0.69 \; (0.071)$
3	0.27 (0.038)	$1.18 \ (0.031)$	0.75 (0.042)	$0.81 \; (0.035)$	0.69 (0.071)
4	$0.23 \ (0.048)$	1.2(0.03)	0.69 (0.044)	$0.73 \ (0.045)$	0.66 (0.06)
5	$0.22\ (0.044)$	$1.21 \ (0.032)$	$0.69 \ (0.043)$	$0.73\ (0.045)$	$0.64 \ (0.064)$

Table 2: Mean (sd) 10-fold cross validation results for Riemannian PLS on the COBRE dataset, as well as Euclidean PLS using the raw correlations and the Fisher transformed correlations. The value K represents the optimal number of latent variables for each setting. The full model metrics are the multivariate R^2 and RMSE on recovering both age and subject group. The group classification metrics look at the classification accuracy of the PLS model for subject group only. Riemannian PLS is the best model over all model metrics.

	Riemannian (K =2)	Raw correlations (K $=3$)	Fisher correlations (K $=3$)				
Full model metrics							
\$R^2\$	$0.25 \; (0.035)$	$0.23 \ (0.033)$	$0.23 \ (0.036)$				
RMSE	$1.2\ (0.036)$	$1.21 \ (0.025)$	$1.21 \ (0.026)$				
Group classification							
Accuracy	$0.75 \ (0.045)$	$0.73 \ (0.032)$	$0.74 \ (0.032)$				
Sensitivity	$0.81\ (0.035)$	$0.7 \; (0.057)$	$0.72 \ (0.055)$				
Specificity	$0.69 \; (0.071)$	$0.76 \ (0.048)$	$0.76 \ (0.048)$				