CNN architecture details		Siamese network details	
Parameter	Value	Parameter	Value
Kernel size	(1,15)	**Optimizer**	Adam
Pooling size	(1,2)	**Learning rate**	0.001
Dropout rate	0.3	**Loss function**	Triplet loss
Stride	(1,1)	**Triplet selection**	Online Semi-Hard
Activation	selu	**Margin**	1.0

TABLE I: Left: Parameters of CNN sub-networks in BrainNet. Right: Parameters of the encompassing Siamese Network.