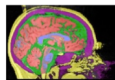


Data Preprocessing



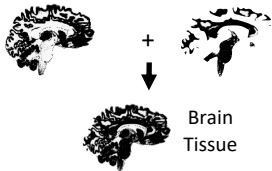
T1w image in native space



Tissue segmentation

Gray Matter

White Matter



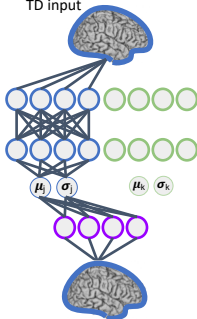
Brain Tissue

Subject's brain in Native space (3D Volumetric view)



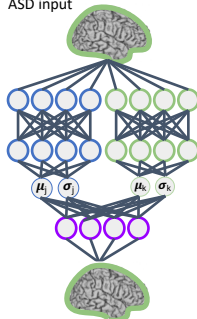
Contrastive autoencoding

Data path for TD input



TD reconstruction

Data path for ASD input



ASD reconstruction



Convolutional encoders



Shared decoder



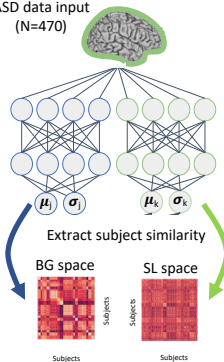
Salient space



Background space

RSA analyses

ASD data input (N=470)



BG space

SL space

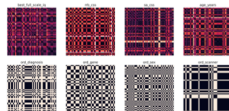
Subjects

Subjects

τ

τ

RSA models



Neuroanatomical Analyses

ASD brain



ASD brain



μ_i σ_i μ_k σ_k

μ_i σ_i 0 0



Full reconstruction

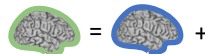


Reconstruction of TD features only

Identification of ASD features

ASD brain

TD features



Spatial normalization
TD \rightarrow ASD