

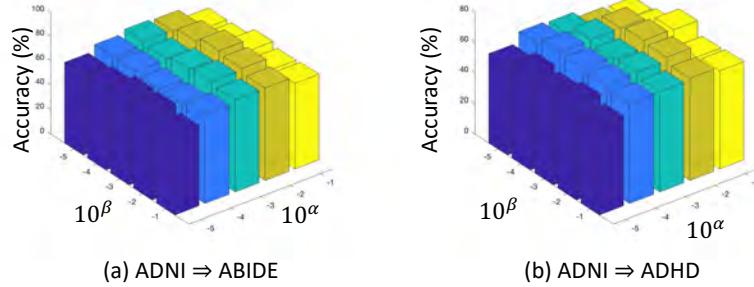
# Appendix

## A. Detailed Configuration

**Table 1.** The range of hyper-parameters examined in our experiments and the final specification for the reported performance.

Notation	Hyper-parameter	Range Examined	Final Specification
$\text{GIN}_f$ , $\text{GIN}_p$	#Separate GIN Layers	[1, 2, 3]	1
$\text{GIN}_1$	#Shared GIN Layers	[1, 2, 3]	2
D	Hidden Dimension	[32, 64, 128, 256, 512]	256
B	Batch Size	[8, 16, 32, 64]	32
$\eta$	Learning Rate	[1e-3, 1e-4, 1e-5]	1e-4
k	Weight Decay	[1e-4, 1e-5]	1e-5
r	Training Epoch	[100, 300, 500, 700, 900]	500
C	Brain State	[3, 4, 5, 6, 7, 8]	7
$\tau$	Temperature	[0.1, 0.5, 0.9]	0.5
$\alpha$	Trade-off for $\mathcal{L}_{\text{GL}}$	[1e-1, 1e-2, 1e-3, 1e-4, 1e-5]	1e-2
$\beta$	Trade-off for $\mathcal{L}_{\text{AP}}$	[1e-1, 1e-2, 1e-3, 1e-4, 1e-5]	1e-3
$\lambda$	Trade-off for $\ A\ _F^2$	[1e-1, 1e-2, 1e-3, 1e-4, 1e-5]	1e-3

## B. Sensitivity Analysis on Loss Trade-off



**Fig. 1.** Accuracy of our method on two cross-dataset tasks with different settings of  $\alpha$  and  $\beta$ .