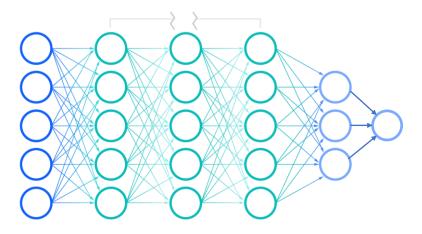
Stage1 (S1): Simulations



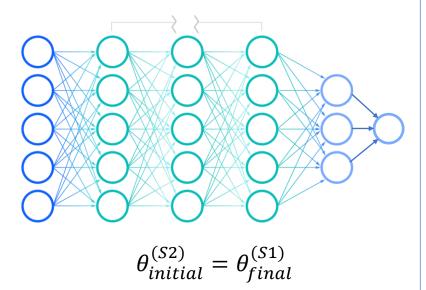
Train: FEFFs, a few horz-shifted experimental spectra

Val: FEFFs lots of horz-shifted experimental spectra

Test 1: FEFFs

Test 2: Gaussian-noise-experimental

Stage2 (S2): Augmentation <u>Fine-Tuning-1</u>



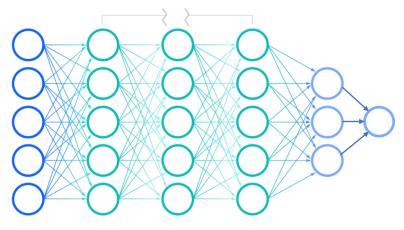
Train: horz-shifted FEFFs, gaussiannoise-FEFFs, a few horz-shifted experimental spectra

Val: Same types as Train + horz-shifted and Gaussian-noise-experimental

Test 1: FEFFs

Test 2: Gaussian-noise-experimental

Stage3 (S3): Experimental Fine-Tuning-2



$$\theta_{initial}^{(S3)} = \theta_{final}^{(S2)}$$

Train: Horz-shifted-experimental + gaussian-shifted experimental

Val: Same types as Train

Test 1: Original IMASC experimental (MSD=.01), Original Silica Wires experimental (MSD=.008)