Supplementary Material

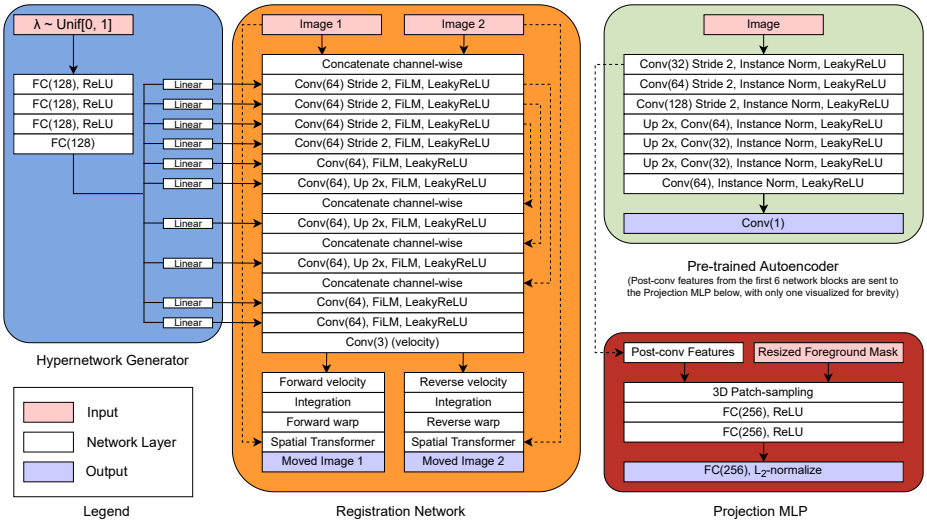

Fig. 1. Low-level architectures used in this paper. Connections between the registration network, autoencoder, and projection MLPs correspond to Figure 1 in the main text. Every convolution uses a 3x3x3 kernel size. LeakyReLU slopes set to 0.2.

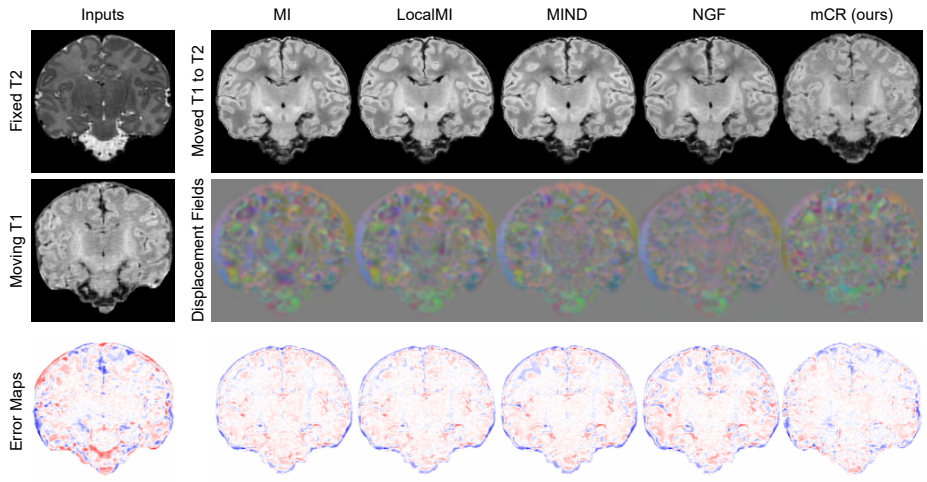

Fig. 2. Coronal view of **T1w-T2w registration** between arbitrarily selected subjects for the ch=64 models. Error maps computed w.r.t. the T1w MRI of the target subject. Hypernetwork registration models are sampled with the same λ as Table 1 (main text).

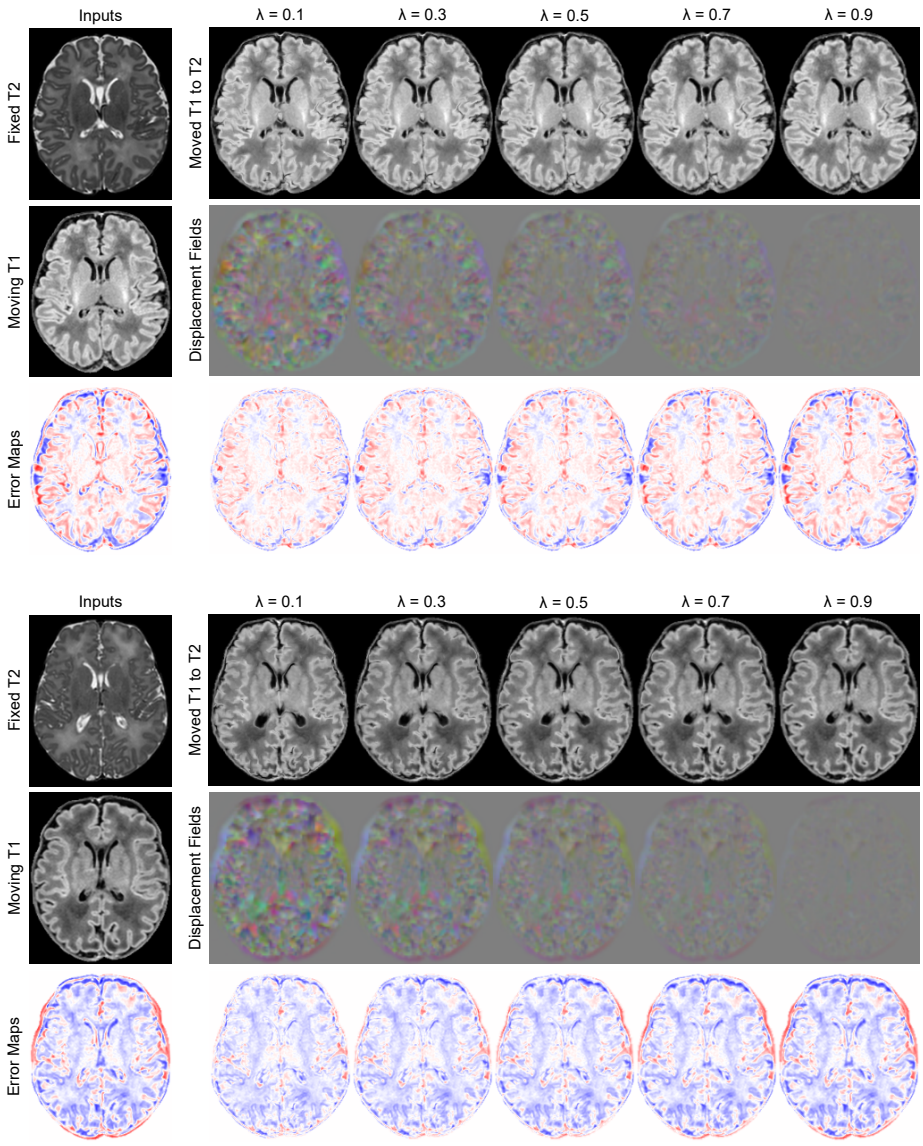

Fig. 3. Hypernetwork T1w-T2w registration. **Leftmost column:** Arbitrarily selected input images to register. **Remaining columns:** Registration results in ascending order of regularization strengths (λ). As λ increases, deformation energies reduce and regularity increases, at the cost of increased image mismatch.