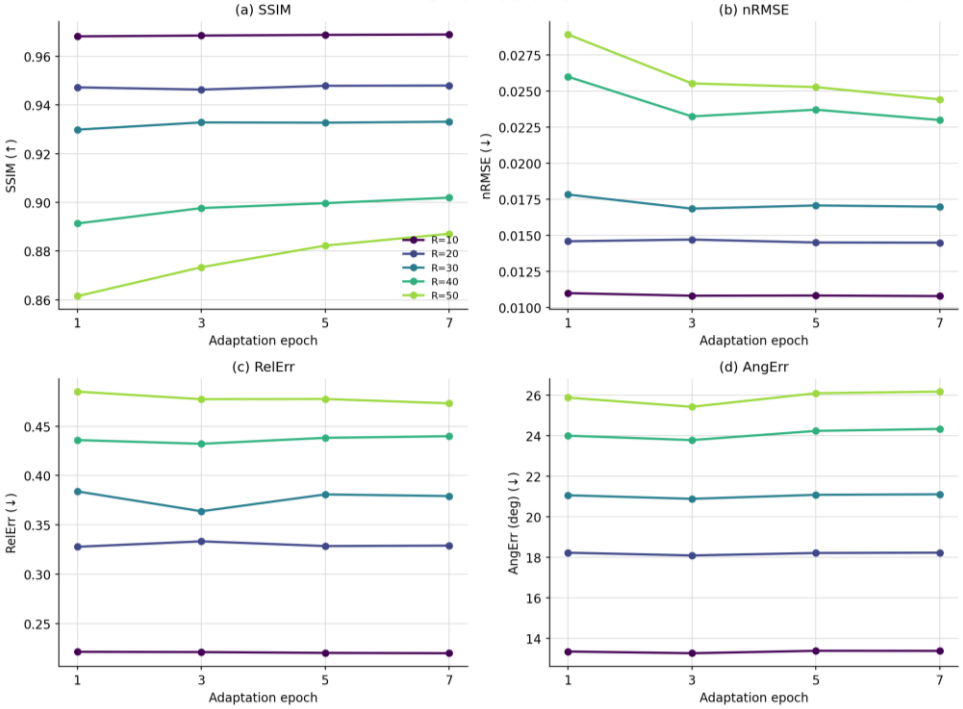
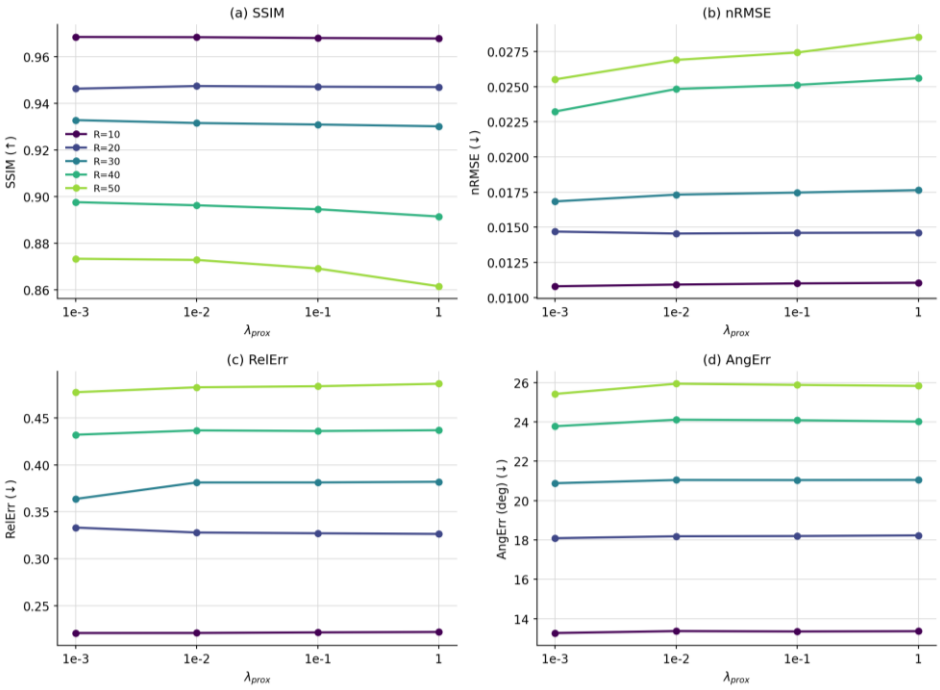
This MICCAI paper is the Open Access version, provided by the MICCAI Society. It is identical to the accepted version, except for the format and this watermark; the



Supporting Information Figure S1: SSIM, nRMSE, RelErr, and AngErr of the Full model as a function of adaptation epoch (1, 3, 5, 7), for R=10-50.



Supporting Information Figure S2: SSIM, nRMSE, RelErr, and AngErr of the Full model as a function of the proximal regularization strength λ_{prox} (1e-3, 1e-2, 1e-1, 1), for R=10–50

R	Adaptation (3 Epoch)	Inference	Total
10	638.2s (10.64 min)	~40 s	678.6s (11.31 min)
20	631.1s (10.52 min)	~40 s	671.1s (11.18 min)
30	630.9s (10.51 min)	~40 s	670.5s (11.18 min)
40	628.1s (10.47 min)	~39 s	667.4s (11.12 min)
50	629.0s (10.48 min)	~40 s	669.0s (11.15 min)

Supporting Information Table S1: Mean adaptation and inference runtime per scan, averaged across 3 test subjects, R=10-50.

SSIM (↑)

R	P009	P010	P012	**Subjects Improved**
10	0.9595 → 0.9603	0.9762 → 0.9766	0.9680 → 0.9687	**3/3**
20	0.9284 → 0.9280	0.9597 → 0.9599	0.9508→ 0.9511	**2/3**
30	0.9058 → 0.9066	0.9532 → 0.9539	0.9366 → 0.9381	**3/3**
40	0.8689 → 0.8748	0.9101→ 0.9133	0.8915 → 0.9049	**3/3**
50	0.8702 → 0.8703	0.8920 → 0.8986	0.8093 → 0.8512	**3/3**

Supporting Information Table S2: SSIM (↑) for Projection-only vs. Full model, per subject, R=10-50.

nRMSE (↓)

R	P009	P010	P012	**Subjects Improved**
10	0.01308 → 0.01294	0.00893 → 0.00882	0.01084 → 0.01065	**3/3**
20	0.01794 → 0.01830	0.01218 → 0.01217	0.01375 → 0.01361	**2/3**
30	0.02170→ 0.02159	0.01320 → 0.01306	0.01622 → 0.01587	**3/3**
40	0.02739 → 0.02556	0.02143 → 0.02125	0.02550 → 0.02289	**3/3**
50	0.02621 → 0.02645	0.02384 → 0.02236	0.03684 → 0.02775	**2/3**

Supporting Information Table S3: nRMSE (↓) for Projection-only vs. Full model, per subject, R=10-50.

RelErr (↓)

R	P009	P010	P012	**Subjects Improved**
10	0.2827 → 0.2841	0.1793 → 0.1750	0.2068 → 0.2038	**2/3**
20	0.3484 → 0.3541	0.3329 → 0.3334	0.3120 → 0.3122	**0/3**
30	0.4371 → 0.4395	0.2916 → 0.2909	0.3638 → 0.3608	**2/3**
40	0.4669 → 0.4637	0.3528 → 0.3512	0.4634 → 0.4814	**2/3**
50	0.4716 → 0.4726	0.4558 → 0.4512	0.5117 → 0.5083	**2/3**

Supporting Information Table S4: RelErr (↓) for Projection-only vs. Full model, per subject, R=10-50.

AngErr (↓)

R	P009	P010	P012	**Subjects Improved**
10	15.25 → 15.88	11.35 → 11.17	12.91 → 12.77	**2/3**
20	20.33 → 20.60	16.55 → 16.47	17.38 → 17.21	**2/3**
30	24.14 → 24.11	17.86 → 17.94	20.96 → 20.60	**2/3**
40	25.42 → 25.42	21.21 → 21.12	25.26 → 24.81	**2/3**
50	27.35 → 27.05	24.46 → 24.34	26.15 → 24.87	**3/3**

Supporting Information Table S5: AngErr (↓) for Projection-only vs. Full model, per subject, R=10-50.