

Main Effects of Denoising, Number of Directions, and Percent Motion, including interactions with Shell Scheme Type						
Characteristic	Translation			Rotation		
	Beta	95% CI ¹	p-value	Beta	95% CI ¹	p-value
(Intercept)	0.528	0.487, 0.569	<0.001	1.125	1.019, 1.231	<0.001
Scheme Type						
Shelled	—	—		—	—	
Non-Shelled	0.115	0.068, 0.161	<0.001	-0.278	-0.398, -0.157	<0.001
N. Directions	-0.001	-0.001, -0.001	<0.001	-0.004	-0.005, -0.004	<0.001
Denoising						
MP-PCA	—	—		—	—	
None	0.060	0.039, 0.081	<0.001	0.335	0.280, 0.391	<0.001
% Motion	0.013	0.012, 0.014	<0.001	0.021	0.019, 0.023	<0.001
Scheme Type * N. Directions						
Non-Shelled * N. Directions	-0.001	-0.001, 0.000	<0.001	0.001	0.001, 0.002	<0.001
¹ CI = Confidence Interval						
Supplementary Listing 1: Factors Impacting RMSE Following Head Motion Correction. Error following motion correction is largely due to uncontrolled factors (presupposed head motion), preprocessing choices (use of denoising), and experimental design (sampling scheme).						

¹ CI = Confidence Interval

Supplementary Listing 1: *Factors Impacting RMSE Following Head Motion Correction.* Error following motion correction is largely due to uncontrolled factors (presupposed head motion), preprocessing choices (use of denoising), and experimental design (sampling scheme).