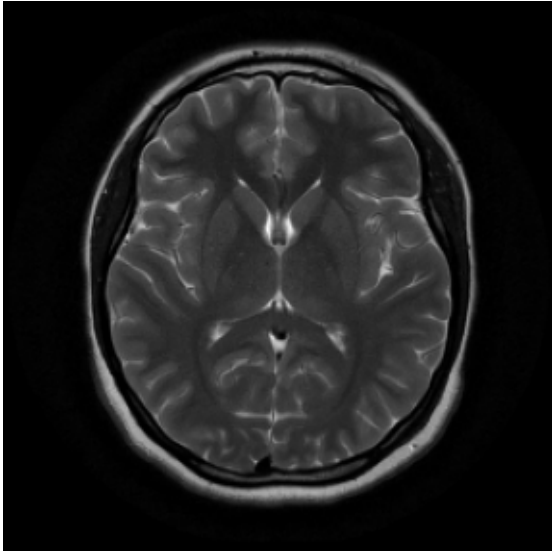
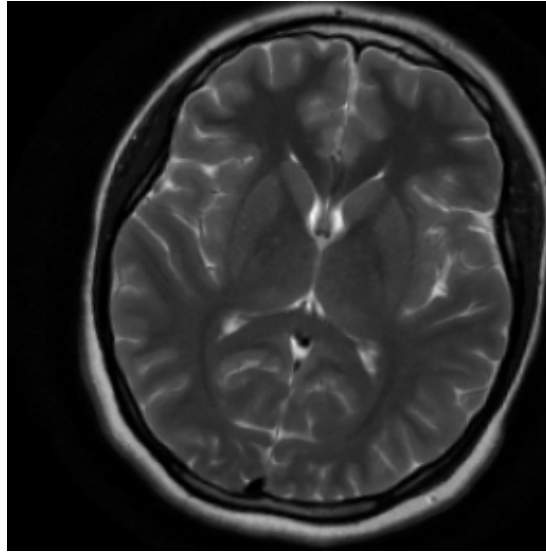


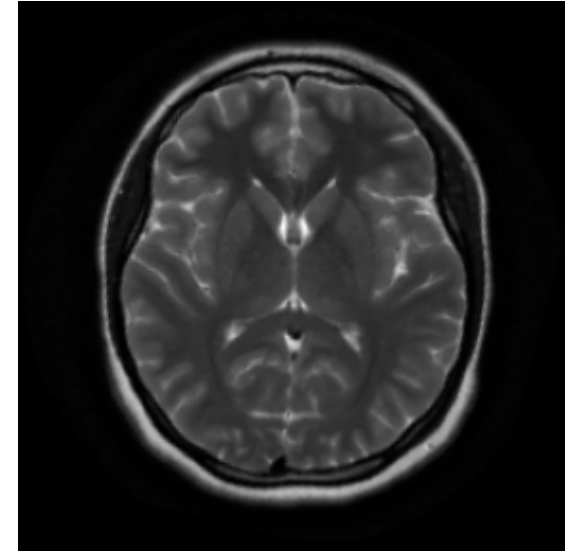
Reference



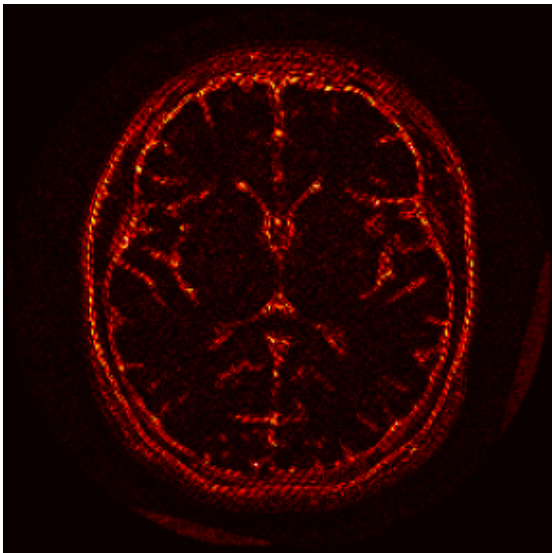
Distorted



Registered



Difference Map

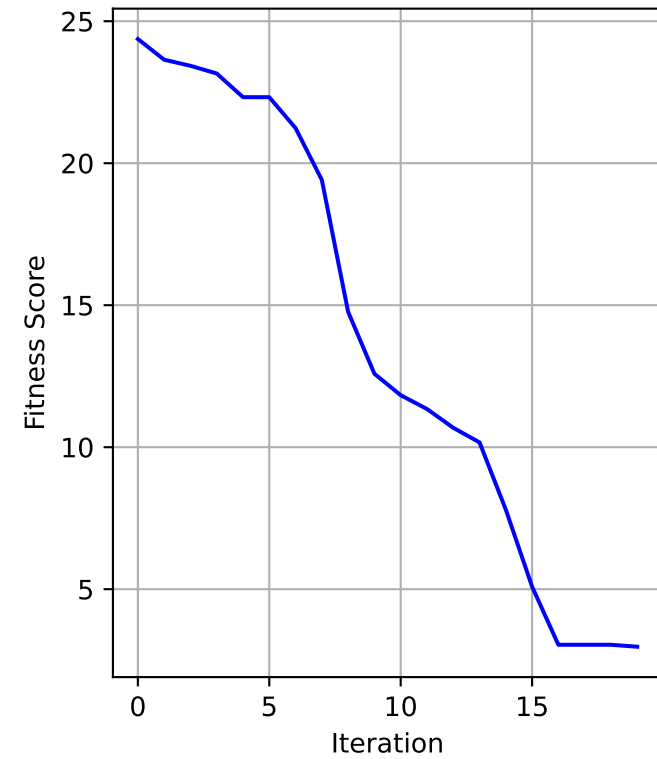


#### Registration Quality

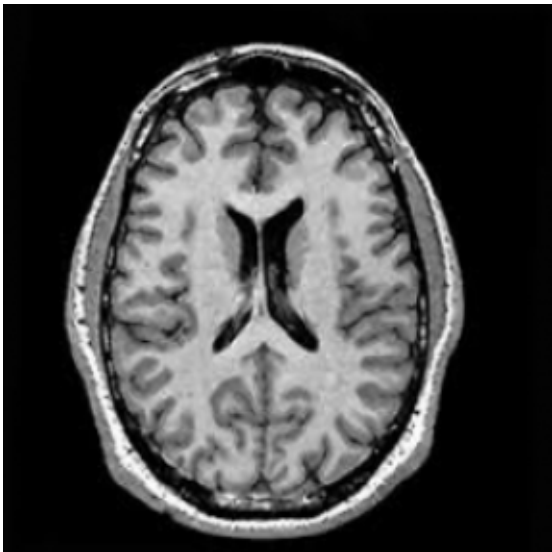
MSE: 11.25  
SSIM: 0.9639  
NCC: 0.9920  
MI: 0.2661

Best Transformation Parameters:  
Rotation:  $-14.57^{\circ}$   
Translation X: -26.24  
Translation Y: -40.72  
Scaling: 1.19

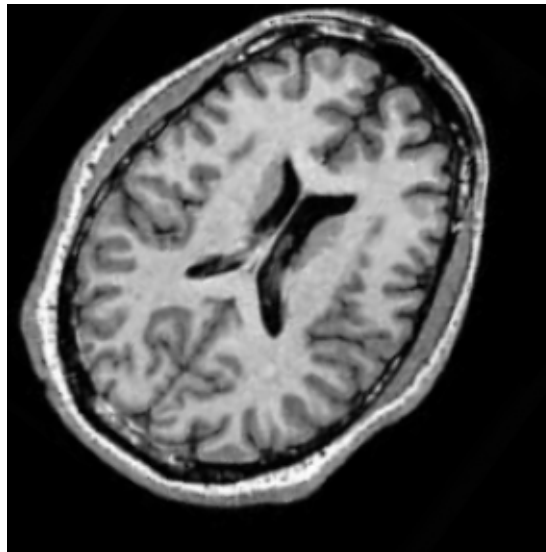
PSO Convergence



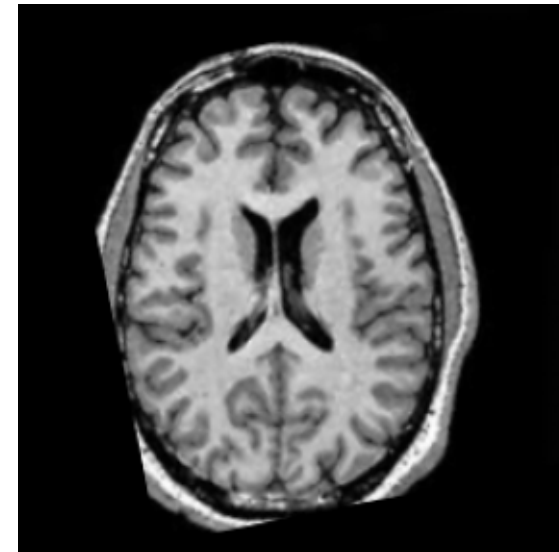
Reference



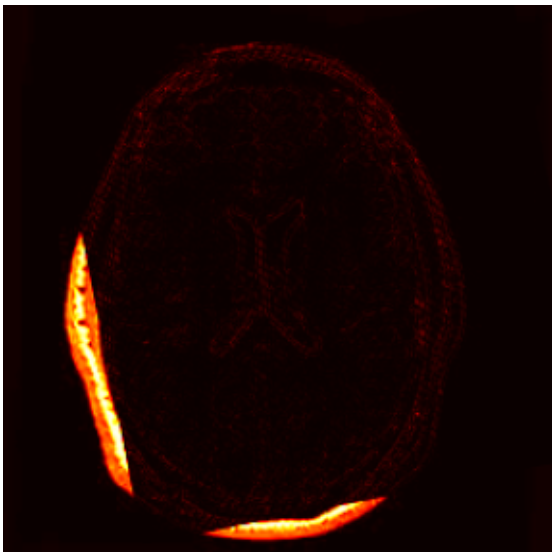
Distorted



Registered



Difference Map

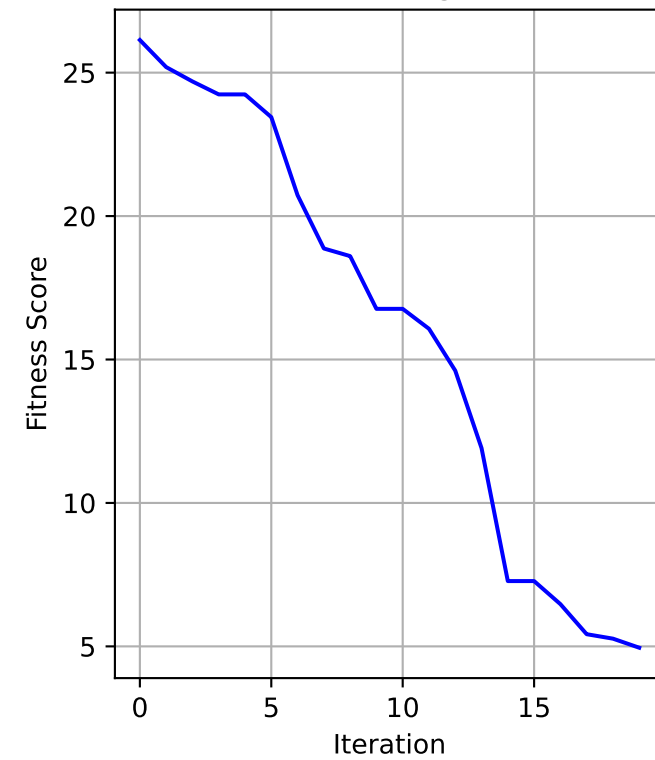


#### Registration Quality

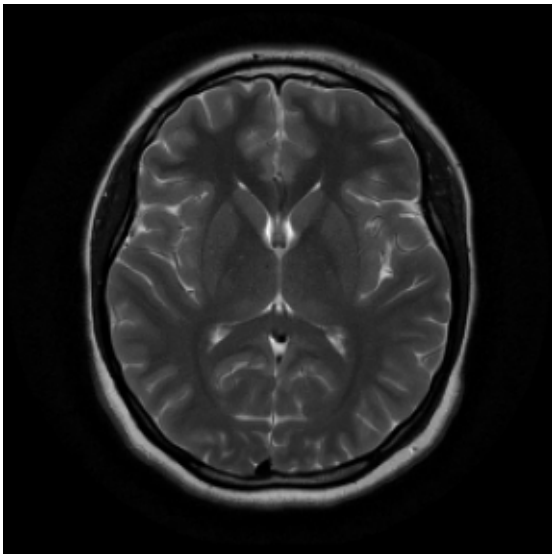
MSE: 14.89  
SSIM: 0.9173  
NCC: 0.9361  
MI: 0.2235

Best Transformation Parameters:  
Rotation: 11.30°  
Translation X: 22.44  
Translation Y: -4.74  
Scaling: 0.85

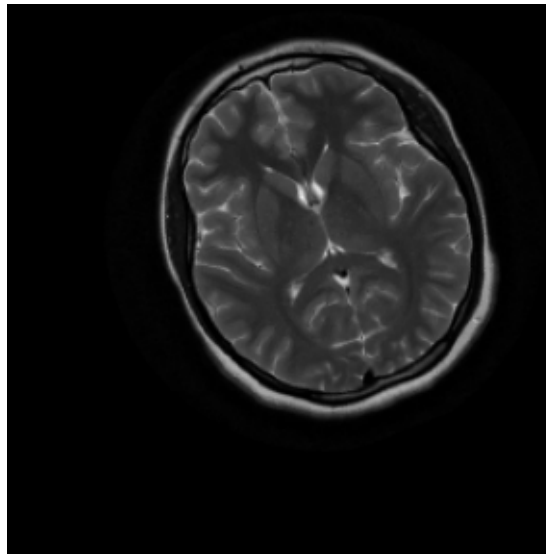
PSO Convergence



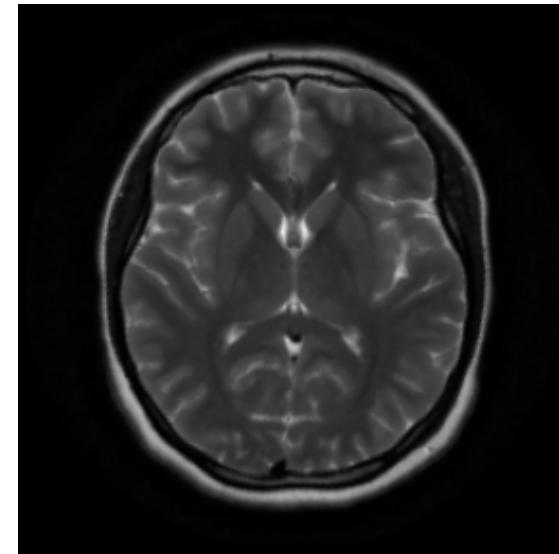
Reference



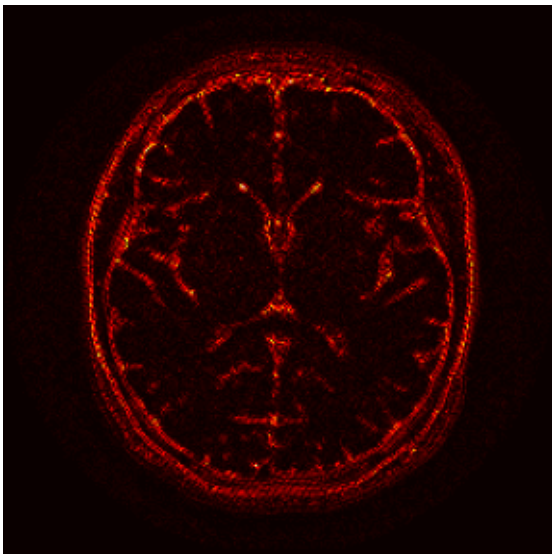
Distorted



Registered



Difference Map



#### Registration Quality

MSE: 11.46  
SSIM: 0.9709  
NCC: 0.9919  
MI: 0.2802

Best Transformation Parameters:  
Rotation:  $-21.24^{\circ}$   
Translation X: -32.05  
Translation Y: 17.97  
Scaling: 1.23

PSO Convergence

