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**Current Project**

My current project is the design of an HPC Brain Shift prediction and resection workflow, using detailed brain segmentation from preoperative images, viscoelastic models, and fluid structure interaction for the simulation of Cerebro Spinal Fluid loss. In this image, the brain shift was shown using the example of patient 7. The upper row shows the orthographic views of the preoperative structural image (T2- FLAIR). The lower row shows the corresponding planes of the same patient's intraoperatively acquired images (3D-T1-MPRAGE). White arrows show the brain deformation. The yellow arrow indicates the incision line on the scalp (bone flap). The green arrow indicates the direction of the patient's head on the operating table.

![Brain shift image](image)

**Previous papers**


Previous Papers *(cont’d)*


