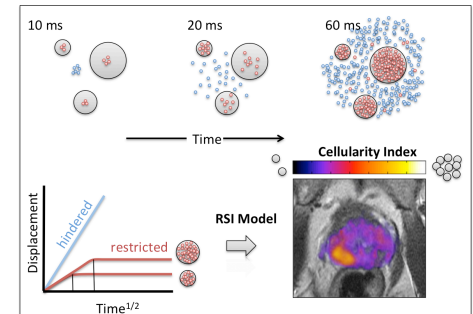


Nathan White, Ph.D.

Research Interests

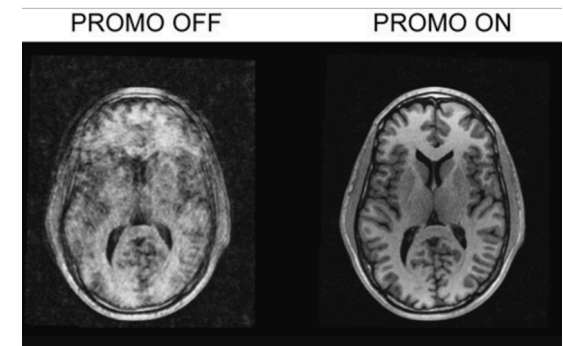
Advanced Diffusion MRI – Restriction Spectrum Imaging (RSI)

- Biophysical model of tissue microstructure
- Non-invasive mapping of quantitative tissue parameters:
 - cellularity (cell density)
 - neurite density
 - nuclear volume fraction
- focus on cancer applications



Real-time Motion Correction (PROMO) in MRI

- Spiral navigated T1 / T2 CUBE sequences for brain
- Self navigated EPI – Diffusion, resting-state.
- utilize new multi-band acquisitions.



Solutions for Clinical Translation

- Development of software application platform for automated post-processing of patient data.
- Facilitates rapid deployment of quantitative Radiology “Apps” into clinical practice.

