

James Andrew Taylor

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EDUCATION	<i>Bachelor of Science, Physics</i> College of Charleston	May 2017
EMPLOYMENT	<i>Image Analyst</i> Radiology Department at MUSC	January 2020 - September 2024
	<ul style="list-style-type: none">• Performed data analysis including image segmentation, artifact correction, and time series modeling of clinical data• Delivered group-wise statistical comparisons from raw MR and behavioral data• Contributed to every part of published manuscripts as second and third author	
	<i>Image Analyst</i> Center of Biomedical Imaging at MUSC	August 2017 - September 2019
	<ul style="list-style-type: none">• Used object oriented programming to generalize existing pipelines for ever-changing image sequences• Determined and presented on validity of new tools; simulated noise and image artifacts to test limits• Trained new researchers and led weekly technical lessons	
TECHNICAL KNOWLEDGE	MATLAB • Python • Neuroscience • MR Imaging • Statistics Peer Review Process • Grant Writing • Physics • Anatomy SQL • Bash • Git • Linux • AWS	
PUBLICATIONS AND PRESENTATIONS (continued on next page)	Taylor J. A. Associations between WinSCAT performance and local pre- to postflight changes in brain structure. <i>NASA Human Research Program Investigator's Workshop</i> , 2024. Tidwell J.B. and Taylor J.A. et al. Longitudinal changes in cerebral perfusion, perivascular space volume, and ventricular volume in a healthy cohort undergoing a spaceflight analog. <i>American Journal of Neuroradiology</i> , 2023. Barisano G., Sepehrband F., Collins H.R., Jillings S., Jeurissen B., and Taylor J.A. et al. The effect of prolonged spaceflight on cerebrospinal fluid and perivascular spaces of astronauts and cosmonauts. <i>Proceedings of the National Academy of Sciences</i> , 2022.	

- Rosenberg M.J., Coker M.A., and Taylor J.A. et al. Comparison of dural venous sinus volumes before and after flight in astronauts with and without spaceflight-associated neuro-ocular syndrome. *JAMA Network Open*, 2021.
- Roberts D.R., Collins H.R., Lee J.K., and Taylor J.A. et al. Altered cerebral perfusion in response to chronic mild hypercapnia and head-down tilt bed rest as an analog for spaceflight. *Neuroradiology*, 2021.
- Bryant L., McKinnon E.T., and Taylor J.A. et al. Fiber ball white matter modeling in focal epilepsy. *Human Brain Mapping*, 2021.
- Rodriguez-Porcel F., Wilmskoetter J., and Taylor J.A. et al. The relationship between dorsal stream connections to the caudate and verbal fluency in Parkinson disease. *Brain Imaging and Behavior*, 2020.