

Jacob Reinhold

CONTACT INFORMATION	Email: jacob.reinhold@jhu.edu	Website: https://jcreinhold.github.io
EDUCATION	Johns Hopkins University <i>Ph.D., Electrical Engineering</i>	Expected May 2022
	The University of Texas at Austin <i>B.S., Electrical Engineering</i>	December 2016
PROGRAMMING EXPERIENCE	<i>Languages:</i> Python, C, C++ <i>Tools:</i> Linux/Unix, Git, L ^A T _E X, MATLAB, Mathematica, Docker, Singularity	
RESEARCH & PROFESSIONAL EXPERIENCE	Johns Hopkins University <i>Graduate Research Assistant</i> Research data normalization and image synthesis techniques for MR images of the brain. Develop machine learning and statistical python packages for image processing and analysis using scikit-learn and PyTorch.	Baltimore, MD Aug 2017 – Present
	Applied Research Laboratories, The University of Texas at Austin <i>Engineering Scientist Associate</i> Implemented array processing algorithms. Characterized ionospheric activity through analysis of communication signal data using Python with NumPy, SciPy, Matplotlib, and various other scientific packages. Created software-defined radio applications.	Austin, TX Nov 2014 – Jun 2017
	Biomedical Informatics Lab, The University of Texas at Austin <i>Undergraduate Research Assistant</i> Investigated the effect of stereo-viewing digital breast tomosynthesis projection images on lesion detection by conducting tests on simulated breast images with a numerical model observer in MATLAB. Wrote scientific papers and created presentations.	Austin, TX May 2016 – Aug 2016
	US Marine Corps Reserves <i>Platoon Sergeant</i> Responsible for the accomplishment of communication platoon's mission including the well-being and professional development of over 20 Marines. Meritoriously promoted to Sergeant.	Feb 2010 – Oct 2015
JOURNAL ARTICLES	G. Wen, H. Chang, J. Reinhold, J. Lo, M. Markey, "Virtual assessment of stereoscopic viewing of digital breast tomosynthesis projection images", Journal of Medical Imaging, 2017, accepted for publication.	
CONFERENCE PRESENTATIONS	J. Reinhold, G. Wen, J. Lo, M. Markey, "Lesion detectability in stereoscopically viewed digital breast tomosynthesis projection images: a model observer study with anthropomorphic computational breast phantoms" SPIE Medical Imaging Symposium, February 2017, Orlando, FL.	
HONORS & AWARDS	Ferdinand Hamburger Jr. Fellowship (2017-2018) Raytheon-SVA Scholarship (2016) Frederic and Julia Weigl Scholarship (2016) Jean Perkins Combat Veteran Scholarship (2015) Jerry A. and Martha Lel Hawkins Endowed Scholarship (2014-2015)	