

# Jacob Reinhold

## Curriculum Vitae

May 2018

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## Education and Qualifications

Expected May 2022 Johns Hopkins University  
Ph.D., Electrical Engineering

December 2016 The University of Texas at Austin  
B.S., Electrical Engineering

## Research Experience

Aug 2017 – **Johns Hopkins University**  
Present *Graduate Research Assistant*  
Research anomaly detection and image synthesis in MR images of the brain

Nov 2014 – **Applied Research Laboratories, The University of Texas at Austin**  
Jun 2017 *Engineering Scientist Associate*  
Investigate the effect of ionospheric activity on radio wave propagation

May 2016 – **Biomedical Informatics Lab, The University of Texas at Austin**  
Aug 2016 *Undergraduate Research Assistant*  
Researched performance of stereo-viewed radiological images in lesion detection

## Journal Articles

1. 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

1. 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.
2. T. Gaussiran, R. Calfas, A. Fleischmann, D. Munton, D. Rainwater, and J. Reinhold, "HF Signal Geolocation vs. Ionospheric Structure: An Engineering Solution Approach", *Ionospheric Effects Symposium*, May 2015, Alexandria, VA. Presented by: D. Rainwater.

## Awards

2017–2018 Ferdinand Hamburger Jr. Fellowship  
2016 Raytheon-SVA Scholarship  
2016 Frederic and Julia Weigl Scholarship  
2015 Jean Perkins Combat Veteran Scholarship  
2014–2015 Jerry A. and Martha Lel Hawkins Endowed Scholarship  
2016 Nominated for Texas Exes Presidential Leadership Award  
Member of Eta Kappa Nu – Electrical Engineering Honor Society

## Professional Experience

Feb 2010 – **United States Marine Corps Reserves**

Oct 2015 *Platoon Sergeant*

Meritoriously promoted to manage and advise over 20 junior Marines

May 2014 – **Advanced Micro Devices, Inc.**

Aug 2014 *Co-op Engineer*

Developed tests to validate memory on in-development microprocessor

## Skills

*Programming Languages:* Python, C, C++, Java

*Tools:* Linux/Unix, Git,  $\text{\LaTeX}$ , MATLAB, Mathematica

## Talks

Apr 2016 “Soap Films and Minimal Surfaces”, Student presentation for Spring 2016 Directed Reading Program in Mathematics