Jacob Reinhold

Curriculum Vitae

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jacob.reinhold@jhu.edu
jcreinhold.github.io
github.com/jcreinhold
gitlab.com/jcreinhold

Education and Qualifications

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

Johns Hopkins University — December 2019
M.S.E., Electrical Engineering

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

Academic and Research Positions

Graduate Research Assistant, Johns Hopkins University — Jan. 2018 – Present
Department of Electrical and Computer Engineering
Image Analysis and Communication Laboratory
Faculty advisor: Jerry L. Prince

Graduate Research Assistant, Johns Hopkins University — Aug. 2017 – Jan. 2018
Department of Electrical and Computer Engineering
Neural Systems Analysis Laboratory
Faculty advisor: Archana Venkataraman

Undergraduate Research Assistant, The University of Texas at Austin — May 2016 – Aug. 2016
Department of Biomedical Engineering
Biomedical Informatics Lab
Faculty advisor: Mia Markey

Journal Articles

1. B. Dewey, C. Zhao, J. Reinhold, A. Carass, K. Fitzgerald, E. Sotirchos, S. Saidha, J. Oh, D. Pham, P. Calabresi, P. van Zijl, J. Prince. "DeepHarmony: A deep learning approach to contrast harmonization across scanner changes." Magnetic resonance imaging (2019).
2. 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 5, no. 1 (2018): 015501.

Conference Proceedings

1. J. Reinhold, Y. He, Y. Chen, D. Gao, J. Lee, J. Prince, A. Carass. "Validating uncertainty in medical image translation." 2020 IEEE 17th International Symposium on Biomedical Imaging (ISBI 2020). IEEE, 2020. *To appear*.
2. J. Reinhold, Y. He, Y. Chen, D. Gao, J. Lee, J. Prince, A. Carass. "Finding novelty with uncertainty." Medical Imaging 2020: Image Processing, International Society for Optics and Photonics, 2020. *To appear*.

3. J. Sager, R. Shankar, J. Reinhold, A. Venkataraman, “VESUS: A crowd-annotated database to study emotion production and perception in spoken english.” Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH. 2019.
4. J. Reinhold, B. Dewey, A. Carass, J. Prince. “Evaluating the impact of intensity normalization on MR image synthesis.” In Medical Imaging 2019: Image Processing, vol. 10949, p. 109493H. International Society for Optics and Photonics, 2019.
5. 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.” In Medical Imaging 2017: Image Perception, Observer Performance, and Technology Assessment, vol. 10136, p. 101360W. International Society for Optics and Photonics, 2017.
6. 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.

Honors and 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
Nominated for Texas Exes Presidential Leadership Award	2016
Member of Eta Kappa Nu – Electrical Engineering Honor Society	

Professional Positions

Engineering Scientist Associate, Applied Research Laboratories	Nov. 2014 – Jun. 2017
Co-op Engineer, Advanced Micro Devices, Inc.	May 2014 – Aug. 2014
Sergeant, United States Marine Corps Reserves	Jan. 2010 – Jan. 2018