BIOGRAPHICAL SKETCH

Max Denis, Ph.D.

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Professional Preparation

University of Massachusetts Lowell		Lowell, MA	Electrical Engineering	BS, 2001
University of Massachusetts Lowell		Lowell, MA	Electrical Engineering	MS, 2005
University of Massachusetts Lowell		Lowell, MA	Electrical Engineering	PhD, 2013
Mayo Clinic		Rochester, MN	Radiology Department	Fellow, 2013-2016
Army Research Laboratory		Adelphi, MD	CISD	Fellow, 2016-present
Appointments				
2018 - present	Assistant Professor, Department of Mechanical Engineering, University of the District of Columbia (Washington, DC)			
2016 – present	Senior Fellow, Computational and Information Sciences Directorate, Army Research Laboratory (Adelphi, MD)			
2016	Research Associate, Department of Radiology, Mayo Clinic (Rochester, MN)			

2013 – 2016 Research Fellow, Department of Radiology, Mayo Clinic (Rochester, MN)

Selected Publications

(i) Up to five selected publications most closely related to the proposed project

- **Denis, M.F.**, Collier, S.L., Noble, J.M., Kirkpatrick Alberts, W.C., Ligon, D.A., Sim, L.K., James, D., Reiff, C.G. (2018). "Acoustic remote sensing for source localization and atmospheric tomography: Applications of the cross-correlation Green's function retrieval method." The Journal of the Acoustical Society of America 144, EL465.
- **Denis, M.F.**, Collier, S.L., Noble, J.M., Kirkpatrick Alberts, W.C., Ligon, D.A., Sim, L.K., James, D., Reiff, C.G. (2018). "Green's function extraction by crosscorrelation and multidimensional deconvolution for outdoor sound propagation." The Journal of the Acoustical Society of America 144, EL353 (2018).

(ii) Up to five other significant publications

- Bayat, M., Adabi, S., Kumar, V., Gregory, A., Webb, J., Denis, M., Kim, B., Singh, A., Mynderse, L., Husmann, D., Alizad, A., Fatemi, M. (2019). "Acoustoelasticity Analysis of Transient Waves for Non-Invasive In Vivo Assessment of Urinary Bladder." Scientific Reports 9:2441.
- **Denis, M.**, Wan, L., Fatemi, M., and Alizad, A. (2018). "Ultrasound Characterization of Bone Demineralization Using a Support Vector Machine." Ultrasound in Medicine and Biology, 44(3), 714-725.
- Kumar, V., Webb, J.M., Gregory, A., **Denis, M.**, Meixner, D. D., Bayat, M., Dana, W.H., Fatemi, M., Alizad, A. (2018). "Automated and real-time segmentation of suspicious breast

masses using convolutional neural network." PloS One, 13(5): e0195816.

- Gregory, A., Bayat, M., Kumar, V., Denis, M., Kim, B.H., Webb, J.M., Meixner, D.D., Ryder, M., (2018). "Differentiation of Benign and Malignant Thyroid Nodules by Using Combpush Ultrasound Shear Elastography: A Preliminary Two-plane View Study." Academic Radiology, S1076-6332(18), 30111-9.
- Denis, M., Gregory, A., Bayat, M., Fazzio, R.T., Whaley, D.H., Ghosh, K., Shah, S., Fatemi, M., Alizad, A. (2016). "Correlating Tumor Stiffness with Immunohistochemical Subtypes of Breast Cancers: Prognostic Value of Comb-Push Ultrasound Shear Elastography for Differentiating Luminal Subtypes." PLoS One. 11(10): e0165003.

Synergistic Activities

- 1. Session Co-Chair for Acoustofluidics Special Session at the 177th Meeting of the Acoustical Society of America (May 13-17, 2019 Louisville, KY)
- 2. Faculty Research Mentor for the Lockheed Martin Fellowship
- 3. Technical Reviewer: Scientific Reports
- 4. Professional Affiliations: Full Member, Sigma Xi, The Scientific Research Society