

## Dr. Michael R. Gardner

Assistant Professor



### Personal Data:

Nationality | United States of America  
Date of Hire | 2019  
Date Rank Obtained | 18/10/2019  
Department | Biomedical Engineering  
Email | mgardner@kfu.edu.sa  
Office No | 11-1053  
Office Phone No | 0135895433

### Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Biomedical Engineering	Biomedical Optics	The University of Texas at Austin	USA	2018
Masters (M.Sc.)	Biomedical Engineering	Biomedical Optics	The University of Texas at Austin	USA	2016
Bachelor (B.Sc.)	Biomedical Engineering	Biomedical Imaging	Purdue University	USA	2012

### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Scattering Angle Resolved Optical Coherence Tomography for Early Retinal Detection of Alzheimer's Disease in a Murine Model
-----	---

### Experiences:

Title of Job	Address of Work	Country	Date	
Fulbright Scholar	University of Bahrain	Bahrain	From	2018
			To	2019

### Research Interests:

1. Biomedical Optics
2. Image Processing
3. Computational Imaging
4. Engineering Education

### Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Michael R Gardner, Vikram Baruah, Gracie Vargas, Massoud Motamedi, Thomas E Milner, Henry G Rylander	Scattering Angle Resolved Optical Coherence Tomography Detects Early Changes in 3xTg Alzheimer's Disease Mouse Model	Translational vision science & technology, 2020	<a href="#">link</a>
2	Michael R Gardner, Ayesha S Rahman, Thomas E Milner, Henry G Rylander III	Scattering-angle-resolved optical coherence tomography of a hypoxic mouse retina model	Journal of experimental neuroscience, 2019	<a href="#">link</a>
3	Michael R Gardner, Nitesh Katta, Ayesha S Rahman, Henry G Rylander, Thomas E Milner	Design considerations for murine retinal imaging using scattering angle resolved optical coherence tomography	Applied Sciences, 2018	<a href="#">link</a>
4	Michael R Gardner, Adam Lewis, Jongwan Park, Austin B McElroy, Arnold D Estrada, Scott Fish, Joseph J Beaman Jr, Thomas E Milner	In situ process monitoring in selective laser sintering using optical coherence tomography	Optical Engineering, 2018	<a href="#">link</a>
5	Jessica Barrick, Ana Doblaz, Michael R Gardner, Patrick R Sears, Lawrence E Ostrowski, Amy L Oldenburg	[HTML] from nih.gov High-speed and high-sensitivity parallel spectral-domain optical coherence tomography using a supercontinuum light source	Optics letters, 2016	<a href="#">link</a>

### Language Proficiency:

1. English, Native
2. Arabic, Advanced