# Ibrahim AlMohimeed, Ph.D.

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## Education

2014 – 2021 ▸ **Doctor of Philosophy (PhD)** Electric and Computer Engineering, Carleton University, Ottawa, Canada.

2011 – 2013 ▸ **Master of Applied Science (MASc)** in Biomedical Engineering, Carleton University, Ottawa, Canada.

2004 – 2008 ▸ **Bachelor of Applied Science (BASc)** in Biomedical Technology, King Saud University, Riyadh, Saudi Arabia.

## Work Experience

2021 – · · · · ▸ **Assistant Professor.** Department of Medical Equipment Technology, College of Applied Medical Sciences, Majmaah University, Majmaah, Saudi Arabia.

2013 – 2021 ▸ **Lecturer.** Department of Medical Equipment Technology, College of Applied Medical Sciences, Majmaah University, Majmaah, Saudi Arabia.

2014 – 2021 ▸ **Research Assistant.** Department of Systems and Computer Engineering, Faculty of Engineering, Carleton University, Ottawa, Canada.

2017 – 2020 ▸ **Teaching Assistant.** Department of Systems and Computer Engineering, Faculty of Engineering, Carleton University, Ottawa, Canada.

2014 – 2018 ▸ **Undergraduate Co-Op Supervisor.** Department of Systems and Computer Engineering, Faculty of Engineering, Carleton University, Ottawa, Canada.

2009 – 2013 ▸ **Teaching Assistant.** Department of Medical Equipment Technology, College of Applied Medical Sciences Majmaah University, Majmaah, Saudi Arabia.

2008 – 2009 ▸ **Clinical Engineering Internship.** Department of Clinical Engineering, King Abdulaziz Medical City, Riyadh, Saudi Arabia.

## Research Interests

- Ultrasonic Sensor Development.
- Medical Ultrasonic Measurement.
- Physiological Monitoring.
- Medical Sensors.
- Biomedical Signal Analysis.

## Research Publications

1 **AlMohimeed, I.** (2021). *Design and construction of a double-layer pvdf wearable ultrasonic sensor for the quantitative assessment of muscle contractile properties* (Doctoral dissertation, Carleton University, Ottawa, Canada).

2 **AlMohimeed, I.**, & Ono, Y. (2020). Ultrasound measurement of skeletal muscle contractile parameters using flexible and wearable single-element ultrasonic sensor. *Sensors*, *20*(13), 3616. doi:10.3390/s20133616

3. Yeung, E., **AlMohimeed**, **I.**, & Ono, Y. (2020). Ultrasonic sensor and method for monitoring of skeletal muscle contraction evoked by electromyostimulation. In *Proceeding of international symposium on advanced biomedical ultrasound* (pp. 1–2).

4. **AlMohimeed**, **I.**, & Ono, Y. (2019). Flexible and wearable ultrasonic sensor for assessment of skeletal muscle contractile properties. In *Proceeding of IEEE international conference on flexible and printable sensors and systems (FLEPS)*. doi:10.1109/fleps.2019.8792301

5. **AlMohimeed**, **I.**, Agarwal, M., & Ono, Y. (2018). Wearable Ultrasonic Sensor Using Double-Layer PVDF Films for Monitoring Tissue Motion. In *Proceeding of ieee canadian conference on electrical & computer engineering (ccece)* (pp. 1–4). doi:10.1109/ccece.2018.8447859

6. Trindade, B. M., Ono, Y., Lemaire, E. D., & **AlMohimeed**, **I.** (2014). Development of a wearable ultrasonic sensor and method for continuous monitoring of mechanical properties of plantar soft tissue for diabetic patients. In *Proceeding of ieee international ultrasonics symposium* (pp. 2112–2115). doi:10.1109/ULTSYM.2014.0526

7. **AlMohimeed**, **I.**, Turkistani, H., & Ono, Y. (2013). Development of wearable and flexible ultrasonic sensor for skeletal muscle monitoring. In *Proceeding of IEEE international ultrasonics symposium (IUS)* (pp. 1137–1140). doi:10.1109/ultsym.2013.0291

8. **AlMohimeed**, **I.** (2013). *Development of Wearable Ultrasonic Sensor s for Monitoring Muscle Contraction* (Master's thesis, Carleton University, Ottawa, Canada).

9. Turkistani, H., **AlMohimeed**, **I.**, & Ono, Y. (2013). Continuous monitoring of muscle thickness changes during isometric contraction using a wearable ultrasonic sensor. In *Proceeding of canadian medical and biological engineering society (cmbes)* (Vol. 36).