

Israa L Mohammad

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Professional Experience

- Teaching in the Department of Physics / Specialization (Electro-Optics)
- Drafted examination papers and evaluated student's assignments and classwork.
- Maintained records of student's progress.
- Informed students regarding attendance and academic policies.
- Planned class schedules and maintained daily lesson plans.

Education

- PhD in Applied Science, Applied Physics, University of Arkansas at Little Rock, USA, 2014
- M.S. (Applied Science), University of Arkansas at Little Rock, USA, 2013
- M.S. (Electron Optics), Al-Nahrain University, Iraq, 2005
- B.S. (Physics), Al-Nahrain University, Iraq, 2002

Publication

- Mohammad, Israa L., Gary T. Anderson, and Youhua Chen. "A two-laser beam technique for improving the sensitivity of low frequency open path tunable diode laser absorption spectrometer (OP-TDLAS) measurements." In *SPIE Optical Engineering+ Applications*, pp. 88670E-88670E. International Society for Optics and Photonics, 2013.
- Mohammad, Israa L., Gary T. Anderson, and Youhua Chen. "Noise estimation technique to reduce the effects of 1/f noise in Open Path Tunable Diode Laser Absorption Spectrometry (OP-TDLAS)." In *SPIE Sensing Technology+ Applications*, pp. 91130S-91130S. International Society for Optics and Photonics, 2014.
- Tolson, Jay, Chris Sheesley, Shahul Mohammed, Samira Mahdi, Isra'a Mohammad, Edmond W. Wilson, and Edward Tunstel. "A system to sense near-surface atmospheric gases of possible biological origin on Mars." In *Sensors*, 2010 IEEE, pp. 1858-1862. IEEE, 2010.
- Anderson, Gary T., Samira Mahdi, Jarjees Khidir, Israa Mohammad, and Edmond W. Wilson. "Field studies of a robot system to measure ground emissions of methane." In *Systems, Man and Cybernetics (SMC), 2014 IEEE International Conference on*, pp. 808-812. IEEE, 2014.

Research Interest

- Absorption Spectroscopy, Diode Lasers, Sensor, Gas Analysis