

Dr. AHMAD A. DARWEESH

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Education:

University of Arkansas, Fayetteville, AR, USA (2013-2019)

PhD, Micro-Electronics and Photonics Graduate Program

Dissertation title: *Optical Enhancement in Metal-Semiconductor-Metal Photo-Detectors with Periodic Plasmonic Gratings Electrodes*

Advisor: Joseph B. Herzog, Department of Physics

University of Al-Mostansiriyah, Baghdad, Iraq

Master of Science in Physics, 2001

Thesis title: *focusing and accelerating charged particles by using electrostatic lenses and plasma.*

Advisor: Zaidoon Ahmad Hafidh

Bachelor's degree in Physics. 1998

Professional Experience:

University of Arkansas, Fayetteville, AR (2015 - 2019)

Research Assistant, Plasmonics Nano-Optics Lab (with J. B. Herzog)

University of Al-Nahrain, Baghdad, Iraq (2003 - present)

Lecturer (2009 – present)

Assistant Lecturer (2003 – 2009)

- Department of Physics
- Instructor also for courses in Chemical Engineering

Teaching Experience:

University of Al-Nahrain, Baghdad, Iraq (2003 - present)

Lecturer

- *Calculus I*, Department of Physics
 - Every Spring 2005-2013
 - class of ~30 students
- *Calculus II*, Department of Physics
 - Every Fall 2005-2013
 - class of ~30 students
- *Electricity Laboratory*, Department of Physics
 - Fall 2004-2013
 - class of ~30 students
- *Magnetism Laboratory*, Department of Physics
 - Spring 2004-2013

- class of ~30 students
- *Mechanics Laboratory*, Departments of Physics
 - Fall 2004-2007
 - class of ~30 students
- *Modern Physics*, Chemical Engineering Department
 - Fall 2009
 - class of ~40 students

University of Al-Mostansiriyah, Baghdad, Iraq (2001-2002)

Instructor:

- *Numerical Analysis*, Computer Science Department
 - Fall 2001-2002
 - class of ~15 students

Research Interests:

- Opto-electronics
- Plasmonics
- Computational electromagnetics of optical nanostructures
- Nanofabrication

Awards and scholarships:

- **Iraqi Ministry of Higher Education and Scientific Research Scholarship**, 2013 – 2019.
- **Teaching Certificate of Appreciation and Gratitude**
 - University of Al-Nahrain's Dean Office, Iraq, 2009.
- **2010 Certificate of Appreciation and Gratitude**, Physics Department, Al-Nahrain University.
- **Best Teacher Award 2013**, Physics Department, Al-Nahrain University.

Leadership Experience and Service

Institute Al-Tanmiyah Wa-Alebdaa:

- Trained in the art of diction, types of intelligence, the art of negotiation, personal strategic planning, and personal styles.

University of Al-Mostansiriyah, Baghdad, Iraq

- Volunteered as tutor for local high school students. (2000)

University of Arkansas:

- Treasurer, SPIE student chapter.
 - Attended student leadership workshop at Optics and Photonics, 2016

Software and Experimental Experience

- Finite Element Methods FEM (COMSOL MultiPhysics).
- Dark-Field Microscopy Spectroscopy.
- Scanning Electron Microscope
- Electron Beam Lithography

Publications

- *Check the Google scholar website*
<https://scholar.google.com/citations?hl=en&authuser=1&user=VOJMOVsAAAAJ>