

## **BIOBRIEF OF DR. A R GANESAN, ASSOC. PROF., DEPT. OF PHYSICS, IITM**



**EMAIL:** [arg@iitm.ac.in](mailto:arg@iitm.ac.in)

**Tel:** 22574891

**Mobile:** 9445567972

### **EDUCATION:**

- M.Sc. degree in Physics with Electronics specialization from the University of Madras in 1984
- Ph.D. degree from the IIT, Madras in 1989.

### **CAREER:**

- Post Doctoral Fellow at the Institute for Advanced Studies at the University of Malaya in Kuala Lumpur, Malaysia.
- Assistant Professor at the Alabama A&M University, Huntsville, USA.
- Visiting Scientist at the Defence R&D lab in Dehradun.
- During his Ph.D. days as well as his post doctoral tenures, he has worked for a number of projects sponsored by various organization in India as well as abroad, like the ISRO, DST, ARDB(India), NASA(USA) and BMFT(German Ministry of Science & Technology).
- Principal Investigator for several R&D projects sponsored by DRDO and DST.
- Also carried out consultancy project for ISRO(Bangalore), BHEL(Hyderabad) and a few other companies.

### **AREAS OF INTEREST:**

- Actively involved in research since 1984 in the fields of Laser applications in Engineering Metrology, Holography, Adaptive Optics, Optical & Opto-Electronic Instrumentation, Speckle Metrology Non-Destructive Testing, Fiber Optics & Laser Instrumentation, Biomedical Instrumentation and related fields.
- Pioneering work in India in the fields of TV Holography, Adaptive Optics & Vision Science:
  - Developed a Hi-Tech indigenous wavefront sensor and a Laser beam steering control system, the first of its kind in India. This would have applications in imaging through turbulent atmosphere and freespace optical communication.
  - Handled a project on the development of a Fundus camera for human eye retinal imaging, a project for measurement of higher order aberrations of human eye with Shack-Hartmann wavefront sensor, as well as the development of a Laser Interferometer for Optical Testing.

### **AWARDS:**

- A recipient of the Alexander von Humboldt Fellowship from Germany, which is one of the most prestigious and coveted post-doctoral fellowship in the world, under which he spent 2 years in Germany at the University of Oldenburg.
- Was invited at the Blackett Laboratory of the Imperial College in London, UK, the Norwegian Institute of Technology, Trondheim, Norway, the Swiss Federal Institute of Technology, Laussane, Switzerland, and the National University of Ireland, Galway, Ireland.

**PUBLICATIONS:**

- More than 70 papers in reputed international journals and Conferences.
- Co-authored a book on "OPTICS" with Eugene Hecht.
- Reviewer for international journals like the Optical Engineering, Optics Communications, Journal of Biomedical Optics and Optics & Lasers in Engineering.
- Associate Editor of Optical Engineering.
- Editor-in-chief of the International Journal of Holography and Speckle.

**MEMBERSHIP:**

- Member of many professional societies
- Fellow of the Optical Society of India.

**SCIENCE CLUB**

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