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OBJECTIVE

To become, as well as to motivate others into becoming, a part of the driving force advancing the understanding of light, its mechanical properties and its interaction with matter in different scenarios, towards its use to optically control and manipulate from atoms to micro-particles.

SKILLS

Learning • Reading • Writing • Listening • Talking • Computation • Problem solving • Creative thinking • Motivation • Teamwork • Organizational • Leadership

The people conducting research and my own experience in optics have taught me this: Research involves continuous, logical, sequential reasoning towards deconstruction, reconstruction and innovative construction from verbal and non-verbal communication produced by similar groups or individuals. A byproduct of research is such communications. The product of research is understanding. In order to further the understanding of physical phenomena thorough research, a personal agenda, and the flexibility to step from and to it, is needed; it is important to recognize the times when the best path is to follow or to lead and act so, as well as negotiating towards common objectives and establishing collaborations where shared leadership is the norm. Most of the time the reason behind it all, research, is curiosity and passion.

I believe these skills can be applied to any endeavor in life.

EXPERIENCE

- 6 years on theoretical optics research: radiation-matter interaction.
- 1 year on automation of optical characterization techniques: Z-scan, Maker fringes.
- 2.5 years as undergraduate and graduate lecturer: Pre-Calculus, Optics, Quantum Optics.
- 2 years as undergraduate physics laboratory assistant: Mechanics, Electromagnetism.

ACADEMIC POSITIONS

- Postdoctoral Research Fellow, Institute of Photonic Technologies. National Tsing Hua University, NTHU, Taiwan, 2009 -
- Postdoctoral Research Fellow, Institute of Physics. Universidad Nacional Autónoma de México, Mexico, 2007 - 2009.
- Associated Professor, Electronic Engineering Department. Universidad Autónoma de Tamaulipas, Mexico, 2005 - 2006.

EDUCATION

- Doctor of Science, Optics. Instituto Nacional de Astrofísica, Óptica y Electrónica, INAOE, Mexico, 2005.
- Master of Science, Quantum Physics. Kungliga Tekniska Högskolan, KTH, Sweden, 2004.
- Master of Science, Optics. Graduated with honors. Instituto Nacional de Astrofísica, Óptica y Electrónica, INAOE, Mexico, 2002.
- Bachelor of Science, Industrial Physics Engineering. Graduated with honors. Instituto Tecnológico y de Estudios Superiores de Monterrey, ITESM, Mexico, 1999.