

# SEAN M. ANDERSON

## Curriculum Vitæ

### PERSONAL DATA

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PLACE AND DATE OF BIRTH: San Francisco, California | May 04, 1984  
ADDRESS: Calixto 42, Guanajuato, GTO, 36000, Mexico  
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### WORK EXPERIENCE

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JAN. 2007 – JUN. 2009	<b>Freelance Photographer</b> <i>Buenos Aires, AR</i> Execution of several projects, both personal and professional. Creation of several personal websites, and content for others.
SUMMER 2006	<b>Part-Time Faculty</b> <i>University of Alabama in Huntsville, Alabama, US</i> Created and taught the first offering of Physics of Photography, PH489. This one credit course provided a fundamental overview of optics and image creation, in relation to photography. Offered to secondary education teachers for 3 days (intensive) during summer semester.
AUG. 2005 – DEC. 2006	<b>Translation Consultant</b> <i>Parent Tutor Corporation, Alabama, US</i> English to Spanish translation of Tutorials designed for parents with young children, grades kindergarten through 8th.
FALL 2004 – FALL 2005	<b>Teaching Assistant</b> <i>University of Alabama in Huntsville, Alabama, US</i> Instructed undergraduate Physics labs 2 and 3 corresponding to classes PH112 and PH113 respectively.
FALL 2002 – SUMMER 2006	<b>Research/Technical Assistant</b> <i>University of Alabama in Huntsville, Alabama, US</i> Research on a variety of topics including: sensors, applications of optical infrared transmitters and receivers for transmitting information from rotating platforms to stationary bases, thin film optical analysis and testing, transmittance and optical properties of helicopter fluids, testing of LED based anti-collision airplane lights, holography, and sonoluminescence.
JAN. 2003 – MAY 2004	<b>A/V Technician</b> <i>Huntsville Hospital, Alabama, US</i> Installation of overhead speaker systems, network cabling, and professional projection and audio equipment throughout the entire hospital facility.
MAY 1999 – MAY 2002	<b>Electronic Devices and Musical Instrument Repairman</b> <i>Electroacústica Foromex, Guanajuato, Mexico</i> Repair service for musical instruments and electronic devices, such as televisions, portable listening devices, amplifiers, computers, etc.

### SKILLS

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Expert	Computer Hardware, Image Manipulation, $\text{\LaTeX}$
Intermediate	Linux, FOSS, HTML, CSS, Video Editing
Beginner	Parallel Programming, Python, HPC

## LANGUAGES

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ENGLISH Native Language  
SPANISH Fluent

## EDUCATION

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JAN. 2012 Master of Science (OPTICAL SCIENCE), **Centro de Investigaciones en Óptica**, Mexico  
Thesis: “Optical Nonlinear Spectroscopy of Gold and Silicon Nanoparticles”  
Advisor: Dr. Ramón Carriles  
GPA: 9.49/10.0

MAY 2006 Bachelor of Science, **University of Alabama in Huntsville**, US  
PHYSICS with minor in MATHEMATICS  
*magna cum laude*  
Advisor: Dr. Don A. Gregory  
GPA: 9.675/10

## SCHOLARSHIPS, HONORS, AND AWARDS

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MAR. 2011	Highest Master Student GPA
MAY 2006	Departmental Physics Honors
NOMINATED 2004 AND 2005	Barry Goldwater Foundation Scholarship
2003 – 2006	Gerhard Heller Memorial Scholarship
2002 – 2006	Dean’s List of Distinguished Students
2002 – 2006	Academic Excellence Scholarship

## PUBLICATIONS

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E. Hong, A. Krishnamurthy, D. Gregory, S. Anderson. Optical slip ring for sensor interface applications. 2006. *Sensors for Propulsion Measurement Applications, SPIE Proceedings Volume 6222*.

D. Solís, T. López-Luke, E. De La Rosa, O. Meza, S. Anderson. Syntonized white up-converted emission by  $\text{Tm}^{3+}$ - $\text{Yb}^{3+}$ - $\text{Er}^{3+}$ - $\text{Ho}^{3+}$  doped  $\text{ZrO}_2$  nanocrystals. 2010. *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIV, SPIE Proceedings Volume 7617*.

S. Corzo-Garcia, R. Medina-Lopez, S. Anderson, E. Castro-Camus, R. Carriles, A. Ruiz-Marquez. Reliable and economical method to join optical tables. 2011. *Optics and Lasers in Engineering 49, 1251–1253*.

## INTERESTS AND ACTIVITIES

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Open-Source Software	Cinema
GNU/Linux	B&W Photography
High Performance Computing and Clusters	Argentine Tango
Parallel Programming	Cooking
GPGPU Computing	Travel
	Adventure

## REFERENCES

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Available (*in spades*) on request.