

## Igor Senderovich

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CONTACT INFORMATION	University of Connecticut Department of Physics 2152 Hillside Road U-3046 Storrs CT 06269-3046	<i>Tel:</i> (860)486-0434 <i>E-mail:</i> senderovich@phys.uconn.edu <i>Webpage:</i> www.phys.uconn.edu/Members/senderovich/
EDUCATION	<b>University of Connecticut</b> , Storrs, CT Ph.D in Physics <i>in progress</i>  <b>Cornell University, College of Arts and Sciences</b> , Ithaca, NY B.A. in Physics, May 2005	
TEACHING EXPERIENCE	<b>Physics Department, University of Connecticut</b> <i>Teaching Assistant</i> <b>Sep 2007 - Dec 2008</b> Instructed Intermediate Laboratory and Electronics for Scientists courses intended for upper-class students.  <i>Assistant Instructor</i> <b>Jul 2007</b> Helped guide elementary school children through Kids Are Scientists Too (KAST) program - a hands-on workshop in basic physics principles and applications.  <i>Teaching Assistant: Physics Learning Resource Center (PLRC)</i> <b>Sep 2005 - May 2006</b> Tutored physics students.  <i>Teaching Assistant</i> <b>Sep 2005 - May 2006</b> Instructed Introductory Mechanics laboratory courses with and without calculus.  <i>Teaching Assistant</i> <b>Sep 2005 - Dec 2006</b> Instructed Introductory Astronomy laboratory course.  <b>Quantitative Learning Center, University of Connecticut</b> <i>Teaching Assistant</i> <b>Sep 2006 - Dec 2006</b> Coordinated and tutored.  <b>Counseling Program for Intercollegiate Athletes, University of Connecticut</b> <i>Tutor</i> <b>Sep 2005 - May 2006</b> Tutored physics to students from athletic teams.  <i>Private Tutoring</i> <b>Mar 2005 - present</b> Tutored physics and mathematics privately with levels ranging from high school to intermediate college level.	
RESEARCH EXPERIENCE	<b>Experimental Research Group in Nuclear Physics, University of Connecticut</b> <i>Research Assistant</i> <b>Jul 2006 - present</b> Developed instrumentation for the Tagger Microscope and the Active Collimator for the Hall-D/GlueX experiment in Jefferson Lab.	

**Laboratory for Elementary-Particle Physics, Cornell University**

*Student Research Assistant*

**Feb 2004 - Aug 2005**

Researched and employed Multiobjective Evolutionary algorithms to optimize the ERL photoinjector. Performed electrostatic computations in electron gun equipment and researched its optimal geometry.

*Student Research Assistant*

**Jun 2003 - Jan 2004**

Evaluated Spark Chamber efficiency and tested its photomultiplier tubes, trigger and NIM electronics.

**Technion - Israel Institute of Technology**

*SciTech 2000 Research Intern*

**Jul - Aug 2000**

Simulated maneuvers of a scaled-down F-16 jet.

**OTHER WORK EXPERIENCE**

**Cornell IT (Distributed Learning Department), Cornell University**

*Language Learning Content Developer*

**Jun 2003 - May 2004**

Assisted in upgrade of a language learning course: remastered old audio recordings through spectral analysis and filtering, provided programming and HTML for content migration.

**Batt Laboratory, Food Science Department, Cornell University**

*Network Administrator*

**September 2001 - May 2005**

Provided general system administration and website support.

**REMO Drug Corporation, Brooklyn, NY**

*IT Assistant*

**Summers 2000-2001**

Developed a network for a new warehouse facility, including work on the wire plant, software and security as well as general system administration and user support.

**PUBLICATIONS**

**Conference Proceedings**

I. Bazarov, I. Senderovich, C. Sinclair, "Multiobjective Optimization of High Current High Brightness Injector", the Proceedings of 2005 Particle Accelerator Conference, Knoxville, TN

**TECHNICAL EXPERIENCE**

Operating Systems:	use and administration of Windows, Unix and Linux
Basic programming in:	C/C++, Matlab M-file, Visual Basic, VHDL
Publication Packages:	HTML, LaTeX
Software Packages:	Matlab/Octave, Mathematica, LANL Poisson and Parmela, AS-TRA, Xilinx ISE, MS Office/OpenOffice Products, Jasc Paint Shop Pro, Adobe Audition
Hardware:	electronics, basic PC maintenance and networking

**HONORS AND FELLOWSHIPS**

$\Phi\K\Phi$ Membership	<b>inducted Spring 2009</b>
$\Sigma\Pi\Sigma$ Membership	<b>inducted Spring 2006</b>
Charles A. Reynolds Fellowship	<b>Spring 2006</b>
Cornell University, College of Arts and Sciences Dean's List	<b>Spring 2005</b>
Hampton University Graduate Studies (HUGS) Summer School	<b>June 2006</b>

**LANGUAGES**

Fluent in English and Russian.