

Igor Senderovich

CONTACT INFORMATION

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EDUCATION

University of Connecticut, Storrs, CT

Ph.D in Physics *in progress*

Cornell University, College of Arts and Sciences, Ithaca, NY

B.A. in Physics, May 2005

TEACHING EXPERIENCE

Physics Department, University of Connecticut

Teaching Assistant

Sep 2007 - May 2008

Instructed Intermediate Laboratory and Electronics for Scientists courses intended for upper-class students.

Assistant Instructor

Jul 2007

Helped guide elementary school children through Kids Are Scientists Too (KAST) program - a hands-on workshop in basic physics principles and applications.

Teaching Assistant: Physics Learning Resource Center (PLRC)

Sep 2005 - May 2006

Tutored physics students.

Teaching Assistant

Sep 2005 - May 2006

Instructed Introductory Mechanics laboratory courses with and without calculus.

Teaching Assistant

Sep 2005 - Dec 2006

Instructed Introductory Astronomy laboratory course.

Quantitative Learning Center, University of Connecticut

Teaching Assistant

Sep 2006 - Dec 2006

Coordinated and tutored.

Counseling Program for Intercollegiate Athletes, University of Connecticut

Tutor

Sep 2005 - May 2006

Tutored athletes in physics.

Private Tutoring

Mar 2005 - present

Tutored privately physics and mathematics ranging in levels from high school to intermediate college level.

RESEARCH EXPERIENCE

Experimental Research Group in Nuclear Physics, University of Connecticut

Research Assistant

Jul 2006 - present

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.

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/administration of Windows, use of Unix and Linux
Basic programming in: C/C++, Matlab M-file, Visual Basic, VHDL
Software Packages: Matlab/Octave, Mathematica, MS Office/OpenOffice Products,
LANL Poisson and Parmela, ASTRA, Xilinx ISE
Hardware: basic PC maintenance and networking, basic electronics

**HONORS AND
FELLOWSHIPS**

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

LANGUAGES

Fluent in English and Russian.