Dennis V. Perepelitsa

70 Amherst St. Cambridge, MA 02142	617-803-7916 dvp@mit.edu
Research Interests: Experimental and theoretical nuclear and high-energy physic	s.
Education Massachusetts Institute of Technology Bachelor of Science in Physics, Bachelor of Science in Mathematics with Compur GPA: 4.5/5.0, Graduation: 6 June 2008 Thesis: $(n,n'\gamma)$ Reactions in ^{63,65} Cu and Background in $0\nu\beta\beta$ Experiments (Adv Colourship University	Cambridge, MA ter Science visor: Joseph Formaggio)
Ph.D. in Physics, Expected Graduation: 2013	New York, IN I
Work and Research Experience	
Lab Researcher MIT Laboratory for Nuclear Science • Performed simulation and modeling work for the KATRIN experiment.	June 2008 - present Cambridge, MA
 Undergraduate Instructor MIT Experimental Study Group Gave daily lecture and developed exams for a section of freshmen. Taught Accelerated Calculus (18.01A/02A) and Differential Equations (18.01A) 	August 2007 - May 2008 Cambridge, MA 03).
 Student Researcher Los Alamos National Laboratory Oversaw nuclear science experiment at the LANSCE particle accelerator. Performed high-energy neutron-interaction cross-section measurements. 	May 2007 - present Los Alamos, NM
 Undergraduate Researcher MIT Picower Center for Learning and Memory Designed and implemented a hidden Markov model library including estim models from recent literature; package release pending. Analyzed neural data patterns in rat hippocampal cells during sleep and away 	March 2006 - January 2007 Cambridge, MA ation algorithms and advanced ake states.
Software Engineer Dimagi, Inc. • Developed encrypted file-sharing software and oversaw the project's remote • Redesigned, automated and administrated company's internal build process	September 2005 - August 2006 Cambridge, MA server installation process. and version control system.
 Undergraduate Researcher Responsive Environments Group, MIT Media Lab Built an original 3D interactive and explorable world using Python bind engine and third party modeling software. Designed visualizations of mesh relaxation and other node localization algorithm 	November 2004 - August 2005 Cambridge, MA lings for the OGRE rendering rithms.
Technical Skills Python, Ruby, Scheme, Java, C++, C# .NET, MATLAB, IATEX, Linux, Windor Apache, Ant, LabView, SVN/CVS, HTML, MySQL, system administration,	ws, SciPy/NumPy, ROOT, instruction set architecture
Awards and Honors Todd Anderson Teaching Award Speaker, April APS Meeting Presenter, Poster Session, Fall Meeting of the APS New England Section Mathematical Contest in Modeling, Meritorious Winner Final Project Design Award in Software Engineering Lab Siemens-Westinghouse Competition in Math and Science, Semi-Finalist	May 2008 April 2008 October 2007 March 2007 December 2005 November 2003
Miscellaneous Undergraduate Senator, MIT Undergraduate Association Executive Board Member, MIT Association of Student Activities Coordinator for Information Technology, MIT Undergraduate Association Member: Association for Symbolic Logic, American Physical Society, Mensa Experienced actor, Trained peer counselor	

References available upon request.