

**Albert Lee**

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## Education

### Harvard University

PhD in Physics

NSF GRFP Fellow (2011 – 2014)

Cambridge, MA  
(projected) November, 2017

### Massachusetts Institute of Technology

BS in Physics

Malcolm Cotton Brown award for a senior of high academic standing in physics who plans to pursue graduate studies in experimental physics.

Cambridge, MA  
June, 2010

### Auburn High School

Graduated with IB diploma

Auburn, AL  
May, 2006

## Skills

**Programming:** IDL, C, C++, Python, Matlab

**Operating Systems:** Windows 7, Linux

## Experience

### Harvard University

Research Fellow, Finkbeiner group

Developed a customized Metropolis Hastings sampler for extracting a faint second-order signal from a noisy data set. Optimized algorithm for speed and numerical accuracy. Created a new map of galactic dust reddening, a data product of interest to most of the observational astronomy community.

Cambridge, MA  
2013 – 2017

### Harvard University

Teaching Fellow, Introduction to Mechanics

Led multiple sections. Showed alternate ways to think about lecture topics and expanded students' understanding of core concepts. Tried different methods of teaching and converged on optimal strategy based on students' feedback.

Cambridge, MA  
Fall 2015

### Massachusetts Institute of Technology

Undergraduate Researcher, Sciolla group

CCD images acquired by Dark Matter Time Projection Chamber (DMTPC) found to have non-uniform gain. Designed and analyzed experiment to identify and calibrate non-uniform gain. Improved gain by factor of 2.5.

Cambridge, MA  
2009 - 2010

Undergraduate Researcher, Sciolla group

Needed an alternate quicker program simulating physics of DMTPC. Developed simulation, including WIMP particle interactions, noise sources, and detector efficiency. Used to determine projected limits on detector sensitivity.

2008

## Other Skills and Interests

**Languages:** Conversational Korean, some Spanish and Japanese

**Visual/graphics Software and Skills:** Photoshop, InDesign, Flash, Latex, illustration, animation

**Interests and Hobbies:** Visual art, Film, Music, Violin, Walking tours of cities