

LEYAN LO

224 Arriba Dr #2
Sunnyvale, CA 94086

(650) 924-2823
leyanlo@gmail.com

EDUCATION

STANFORD UNIVERSITY
Doctor of Philosophy, Physics

(Currently enrolled)

CALIFORNIA INSTITUTE OF TECHNOLOGY
Bachelor of Science, Physics

Jun 07
GPA: 3.6

SKILLS

Programming languages: Python, C/C++, Java, JavaScript, Visual Basic, HTML, CSS

Software: Windows, Mac, Linux, Lotus Notes, Eclipse, Photoshop, Matlab, LaTeX

EXPERIENCE

STANFORD UNIVERSITY

Research Assistant

Project: Solar Cycle

Jan 08 – Present

Advisor: Phil Scherrer

- Developed procedures in C and Matlab to extrapolate solar surface toroidal magnetic fields using data from WSO (Wilcox Solar Observatory) and MDI (Michelson Doppler Imager).
- Discovered traces of solar cycle 24 at high latitudes in 2003 using the toroidal field technique.

AXOLOTL

Software Development Engineer

Jun 08 – Dec 08

Manager: Lin Wan

- Designed dynamic input forms that are generated based on user configured fields.
- Modified existing code to include an incremental update procedure when importing new data into the Notes databases.
- Wrote a few automated testing scripts for the online product, Elysium.
- Developed in IBM Lotus Notes and Eclipse using JavaScript, Lotus Script, Formula, and HTML.

JET PROPULSION LABORATORY

Research Assistant

Project: Weak Lensing in High Redshift Clusters

Jun 06 – Jun 07

Advisor: Jason Rhodes

- Detected weak lensing signals from high redshift ($z \sim 1.0$) galaxy clusters.
- Developed numerical simulations for the point spread functions of galaxy clusters.
- Reduced noise in Hubble ACS images.

Research Assistant

Project: Detector for Underground Aquifers

Jun 05 – Sep 05

Advisor: Talso Chui

- Constructed a detector for underground water for potential use in future Martian exploration missions.
- Developed programs in LabVIEW to collect and analyze data.

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CALIFORNIA INSTITUTE OF TECHNOLOGY

Research Assistant

Jun 04 – Sep 04

Project: Star Formation Rates & Histories of LSBs

Advisor: Christopher Martin

- Measured and correlated star formation rates and star formation histories of 85 low surface brightness galaxies.
- Analyzed UV images from the GALEX space telescope.

ACTIVITIES

Caltech Rubik's Cube Club

Jan 04 – Present

Organized Rubik's cube competitions in San Francisco, Los Angeles, Atlanta, Chicago, and Dallas.

World records

Rubik's cube solve

Jan 06

Rubik's cube blindfolded solve

Mar 06, Nov 05, Apr 05

Violin

Stanford Symphony Orchestra

Sep 07 - Present

Caltech-Occidental Symphony Concerto Competition Winner

Dec 06, Dec 03

Concertmaster of the Caltech-Occidental Symphony Orchestra

Sep 04 – Jun 07