Levon Dovlatyan

2327A Dwight way
Berkeley, CA 94704
(818) 319 3707
levondov@berkeley.edu
http://levondovlatyan.me

Curriculum Vitae

Education

2013-2015 **Bachelor of Sciences, Engineering Physics**, *The University of California*, Berkeley, California.

2011-2013 **Transfer Student**, *Valley College*, Los Angeles, California.

Professional Experience

Oct 2014 - Dec 2015 **Student Worker**, Advanced Light Source (ALS), Lawrence Berkeley Laboratory (LBL).
- Researching lattice diagnostic techniques with beam position monitors
- Upgrading control room GUIs to a new archiving system
- Participated in normal accelerator physics operations

Jun 2014 - Aug 2014 **Student Worker**, Metrology Light Source (MLS), Helmholtz-Zentrum Berlin (HZB).
- Developed a tune resonance control room program to help assist with operations
- Setup the optical path for a new streak camera at the physics test beamline and helped take initial measurements with the camera
- Participated in normal accelerator physics operations

Research Experience

Sep 2013 - May 2014 **Research Assistant**, Harte Lab, UC Berkeley.
- Performed lab work and data analysis on a large set of soil sample field data
- Modified existing open source software and wrote new software to assist with data analysis

Teaching Experience

Sep 2012 - Feb 2013 **Tutor, Mentor, and Teacher**, *Project GRAD Los Angeles*, San fernando Valley.
- Worked on-campus at middle and high schools around the San Fernando Valley
- Facilitated and taught several periods of class three days a week
- Worked in after school and weekend tutoring activities
- Taught all subjects ranging from 6th grade English to AP Physics/Chemistry

Awards

Fall 2011-Spring 2013 Full Time Dean's Honor (GPA above a 3.5)

Fall 2012-Spring 2013 President's Honor (awarded for 3 consecutive Dean's Honors)

May 2013 Hawkinson Scholarship

May 2013 Ageton-Pittenger Scholarship

May 2013 ASU Scholarship

Mat 2013 LAVC Foundation TAP Scholarship

Presentations

L. Dovlatyan, G. Portmann, "Measuring energy dependent tune shifts during RF failures." ALS accelerator physics group meeting, LBNL B 80-234-CR, Berkeley, CA. April 22 2015.

L. Dovlatyan, "Applications of TbT BPM data." ALS accelerator physics group meeting, LBNL B 80-234-CR, Berkeley, CA. July 22 2015.

Workshops/Conferences attended

Software Carpentry Workshop, University of California Berkeley, Berkeley, California, 18 Jan 2014

Research/Lab Skills

- Very familiar with accelerator tracking codes AT (Matlab) and TracyPi (Python). Also have lots of experience working with the Matlab Middle Layer (MML) high level control system and EPICS.
- Have performed and been involved in many accelerator physics shifts both at the ALS and at the MLS. I have written scripts that were used to perform specific experiments and collect data during shifts.
- Familiarity with beam instrumentation. I have spent a lot of time working with beam position monitors (BPMs) at the ALS. I also have experience operating and working with streak cameras and pinger magnets.
- IC device design, mask layout, and implementations. Basics lab procedures for IC chip fabrication: lithography, etching, film deposition, thermal oxidation growth, etc... Built 3μm NMOS transistors as well as resistors, capacitors, diodes, and MEMS devices.
- Designed, tested, and built a working Electroencephalograph from scratch. i.e. used Multisim to build basic circuit diagram, Ultiboard to build the circuit layout, and soldered all the components when the printed IC chip arrived.
- General Physics, Chemistry, and Engineering lab skills. Working with scopes and function generators, performing titrations and crystal growth, annealing and recrystallization, etc...

Computer Skills

Programming Languages	C/C++, Python, Matlab, Java, Bash	Type Setting	LaTeX, Open Office, Microsoft Office
Web Programming	HTML, CSS, PHP	Operating Systems	Linux (Ubuntu), Windows
Specialized Software	EPICS, Multism, Ultiboard, NOVA, wxPython (GUI), Tsuprem4	Version control	Git, Mercurial