Levon Dovlatyan

Curriculum Vitae

Education

2013-Present **Bachelor of Sciences, Engineering Physics**, *anticipated May 2015, The University of California*, Berkeley.
Current standing: fourth year

2011–2013 **Transfer Student**, *Valley College*, Los Angeles.
TAP (Transfer Alliance/Honors Program) certified transfer student

Experience

Jan. 2015 **Student Worker**, Advanced Light Source (ALS), Berkeley, Supervisor: Greg Portmann, gjportmann@lbl.gov.
Helping optimize the newly installed BPMs at the ALS. (Just started)

Summer 2014 **Summer Research Student**, Helmholtz-Zentrum Berlin (HZB), Berlin, Supervisors: Dr. Markus Ries and Dr. Paul Goslawski, markus.ries@helmholtz-berlin.de and paul.goslawski@helmholtz-berlin.de .
Developed a tune resonance program in Python now used at both synchrotrons, BESSY II and the Metrology Light Source (MLS). Helped with new streak camera optical path setup as well as measurements and diagnostics once the camera was running. Participated in normal accelerator operations. To list a few: helped with injection, magnet optimization, and switching modes from 'standard user' to 'low emittance' and 'low alpha' etc.

2013 - 2014 **Research Assistant**, Harte Lab, UC Berkeley, Supervisor: Danielle Christianson, dsvehla@berkeley.edu.
Primarily working with Danielle on microclimate and conifer seedling establishment at multiple spatial scales. Duties include data management (digitization and organization of field data), programming (Matlab), and lab work (responsible for the dozens of soil samples that must be analyzed for volumetric water content). Also developed a 2d curvilinear coordinate transformation program in matlab and python to be used for field data.

2012 - 2013 **Tutor, Mentor, and Teacher**, *Project GRAD Los Angeles*, San fernando Valley, Supervisor, Cristina Gutierrez, cgutierrez@projectgradla.org.
Worked on-campus at middle and high schools around the San Fernando Valley helping struggling students. Facilitated and taught several periods of class three times a week with other tutors as well as after school tutoring which was more one-on-one focused. Taught all subjects ranging from 6th grade English to AP Physics/Chemistry.

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(818) 319 3707 • levondov@berkeley.edu • Github page

Programming/Computer Skills

Languages	C++,Python,Java,Matlab,LaTeX
Software/OS	Multisim,Ultiboard,TSUPREM4,wxPython(GUI),Office suite (Excel,Word, etc), Linux, Windows

Course Work

Mathematics

- Full calculus series
- Differential equations and linear algebra
- Mathematical methods for the physical sciences (2 semesters)

Physics and Chemistry

- Full general physics series with labs (Kinematics, E & M, and Optics/Modern Physics)
- Full general chemistry series with labs
- Phys 137A & B, Quantum Mechanics (2 semesters)
- Phys 105, Classical Mechanics
- Phys 110A & B, E & M (currently enrolled)

Engineering

- Eng 7, Matlab
- Eng 45, intro to materials
- EE 40, intro to microelectronic circuits
- EE 143, microfabrication lab
- MSE 111, properties of electronic materials (currently enrolled)
- Eng 157AC, engineers in society (currently enrolled)

Lab Work/Projects

- Soldering and bread board skills
- Working with oscillocopes and function generators
- Experience with building optical setups
- Designed, tested, and built a working Electroencephalograph
- Built a home surveillance system using a raspberry pi & xbox kinect camera
- General chemistry and physics lab skills
- See Github for the software projects/programs I've written for work/research

Awards

2011-2013	Full Time Dean's Honor x 4
2012-2013	President's Honor x 2
2013	Hawkinson Scholarship
2013	Ageton-Pittenger Scholarship
2013	ASU Scholarship

2013 LAVC Foundation TAP Scholarship

2008 Honorable Mention in Senior Engineering Applications at 58th LA County Science Fair.

Hobbies, Interests, and Activities

- skateboarding (10 years)
- programming/making games/apps
- electronics (arduino, raspberry pi, etc)
- working at synchrotrons (BESSYII, MLS, and ALS)
- speed cubing
- Sci Fi