

Matthew Xiong

3625 Greenfield Ave. | Los Angeles, CA, 90034 | 310-447-8663 | xxiong@g.ucla.edu

Education

09/2011 – Present

Bachelor of Science, Electrical Engineering

Concentration: Biomedical

University of California, Los Angeles

Expected Graduation: 2015

GPA: 3.457/4.000

Relevant Coursework

Circuit Theory, Logic Design of Digital Systems, Systems and Signals, Semiconductor Physics, Applied Numerical Computing, Circuit Analysis, Digital Signal Processing, Engineering probability, Circuits Measurement Laboratory, Engineering Electromagnetics, Introduction to Computer Science, Analog Electronic Circuits, Feedback Systems.

Skills

MATLAB, HTML/CSS, C++, PSPICE, RStudio, Autodesk Inventor 2015, Microsoft Word, Microsoft Powerpoint, Microsoft Excel.

Awards

Eta Kappa Nu (HKN) Electrical Engineering Honor Society
Dean's Honor List for superior academic achievement (3 quarters)
Runner up in Boy's and Girl's Club Youth of the Year competition.
Semi-finalist in the 2011 Rotary Club speech competition

Experience

05/2014-Present

The Ozcan Research Group | *UCLA Undergraduate Researcher* | Los Angeles, CA

- Currently researching new optoelectronic methods for Brownian motion track-analysis of nanoparticles.
- Developed experiments with total internal reflection prisms to increase diffraction for sharper images.
- Prepared microbead and nanobead samples for imaging.
- Prepared fluorescent nano-sized quantum dot samples for fluorescence imaging.

06/2012-Present

UCLA Nanolab | *Technician Assistant* | Los Angeles, CA

- In charge of the calibration of metal and oxide targets in the Denton Discovery 2000 metal deposition sputterer and maintenance of the CHA thermal evaporator.
- Assisted in the projects of graduate students including particle accelerator copper deposition onto quartz tubes and MOSFET transistor oxide deposition and etching.

05/2013-09/2013

Volunteer Summer English Teachers (VSET) | *English Teacher* | Ulaanbaatar, Mongolia

- Taught English as a second language to 5th grade students in Ulaanbaatar, Mongolia.
- Immersed them in American culture by teaching them basketball, Frisbee and other activities.
- Arranged, organized and led several school events such as hikes and field trips for students on the weekends and holidays.

05/2010-08/2010

Cedars-Sinai Gene Therapy Research Institute | *Assistant Researcher* | Los Angeles, California

- Assisted a group of neurosurgeons with the discovery of novel treatments for Glioma and Glioblastoma.
- Performed and prepared immunocytochemistry stain slides and mice brain sectioning
- Presented results and findings at weekly progress meetings.

06/2009-08/2011

Boy's and Girl's Club of Venice | *Tutor* | Los Angeles, California

- Tutored middle school students in the areas of mathematics and science.
 - In charge of mentoring and training the chess club on employing various openings and strategies
 - Mentored as staff counselor with the responsibility of taking care of kids within a certain age group (playing basketball, pool, teaching games, leading field trips, etc.).
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Involvement

10/2012 – Present

Alpha Gamma Omega Fraternity | *Chaplain and Secretary* |

- Served on Executive Board as Chaplain and had the responsibility of leading and planning bible studies, worship session and other social/spiritual events.
- Served on Executive Board as Secretary with the responsibility of taking notes and minutes at every meeting.

09/2011-06/2013

UCLA Men's Club Volleyball | *Co-Captain and Safety Officer* |

- As safety officer of the team, was trained in basic first aid and CPR.
- Played outside/opposite hitter for two years
- Won the National Club Volleyball Tournament Silver Bracket in 2011.

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