

Lauren Ficarelli

5200 Chicago Avenue Apt. C7, Riverside, CA 92507 ♦ (808) 341 2350 ♦ laurenficarelli@gmail.com

Education

B.S. Materials Science and Engineering, University of California, Riverside

March 2017

Relevant courses:

- Analytical Material Characterization
- Physical Metallurgy
- Nanostructure Characterization Lab
- Nanotechnology Processing Lab
- Intro to Nanoscale Engineering
- Biomaterials

Awards:

- 2016 Nissley Makership - Scholarship for female engineers that offered free courses on welding and soldering
 - Fall 2015 HSI Undergraduate Research Award
-

Skills

- Scanning Electron Microscope (SEM)
 - Electron Backscatter Diffraction (EBSD)
 - SEM/EBSD Sample Preparation
 - Serial Sectioning
 - Welding
 - Machine Shop Training
 - Soldering
 - SF-86 Security Clearance
-

Work Experience

**Undergraduate Research Assistant, University of California, Riverside,
Dr. Suveen Mathaudhu**

October 2014 – Present

- Metallographic sample preparation and characterization of nanostructured metals
- Design of a programmable micromilling device for fabrication of small scale mechanical tests
- Welded a steel table for use in the metallography lab and trained peers to weld

Research Assistant, U.S. Naval Research Lab, Washington, D.C.

June 2016 – Present

- Advanced knowledge on the use of the Robo-Met.3D serial sectioning device by finding relations between load and polishing parameters with the polishing plane and material removal rates
- Trained new interns on lab equipment and procedures

June 2015 – August 2015

- Planned, executed and presented conclusions on an independent research project on processing-structure linkages in additively manufactured Inconel 718 through detailed microstructure characterization
 - Learned new laboratory skills such as Electron Backscatter Diffraction Imaging and adapted to the changing demands of research
-

Extra-Curricular

Vice President, Material Advantage, University of California, Riverside

August 2015 - Present

- Founded and manage activities for a new chapter of Material Advantage at UCR
- Plan and participate in quarterly industrial field trips and host monthly guest speakers who discuss how their engineering degree translates into their careers
- Maintain relationships with Orange County and Los Angeles chapters by attending meetings and lectures
- Planned collaborative events with American Society of Mechanical Engineers chapter at UCR
- Volunteer outreach to middle school and high school students relating materials science to comic theory

Intramural Soccer, University of California, Riverside
Sacramento City College Water Polo, Sacramento, CA
Sacramento City College Swim, Sacramento, CA

Spring 2015 – Present
Fall 2011 – Fall 2012
Spring 2012