

Trevor Clark

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Research Interests and Summary

Currently performing graduate research under the guidance of Dr. Suveen Mathaudhu at the University of California, Riverside. Conducting research in the field of powder metallurgy focusing on powder processing for nanoscale microstructural development. Particular interest in developing iron silicon alloys for electric motor applications and high entropy alloys as nanomagnetic materials for extreme environments. Materials characterization expertise in particular electron microscopy and x-ray diffraction.

Education

University of California Riverside, Riverside, CA

Expected completion date: June 2019

Ph.D. in Materials Science and Engineering

- Dean's Distinguished Fellow

University of California Riverside, Riverside, CA

Graduation date: June 2015

B.S. in Materials Sciences and Engineering with a focus on Electronic, Magnetic, and Nanomaterials

- GPA: 3.4/4.0, Tau Sigma Honor Society

Technical Skills

- SEM, TEM, XRD, Optical Microscopy, AFM, XRD, DSC, 3- ω , TGA, Mechanical testing
- Matlab, Python, LabVIEW, Excel VBA, SolidWorks, PSpice, HTML5, MS Office
- Machining, Polishing, Welding, Soldering, Mortar and Pestle, Woodworking, LASER alignment

Work Experience

University of California, Riverside Advanced Materials Processing & Synthesis Lab February 2014 - June 2015

Research Assistant

- Process and synthesize ceramics through Spark Plasma Sintering and Physical Vapour Deposition
- Conduct investigation of material properties through characterization (SEM, XRD, Raman, IR spec)

University of California, Berkeley Nano/Energy Lab: Berkeley, Ca

July 2014 - October 2014

Guest Researcher

- Apply 3- ω method to analyze gold nanocrystalline superlattices to determine thermal conductance
- Research and design polymer embedded 3-Omega instrumentation for non-standard samples

Honors and Awards

Dean's Distinguished Fellow **University of California, Riverside**

2015

Professional Society Memberships

Materials Research Society

Three M Society

Materials Advantage

Other Activities

Outreach: Booth at STEMFEST USA 2016, MESA day at UCR volunteer, material science demonstrations, Peer tutor, SWE at UCR Mentor

Presentations

TMS Annual Meeting & Exhibition: Invited Talk

2016

Nanostructured Magnetic High Entropy Alloys