

Steven Herzberg

United States Citizen

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Research Interests and Summary

Currently a graduate student researcher in the Mechanical Engineering Ph.D. program at the University of California, Riverside, and co-advised by Professors Suveen Mathaudhu and Lorenzo Mangolini. Research is presently focused on utilizing a new combination of production and processing techniques to create lightweight, high strength nanocomposites with metastable microstructures. Research interest involve non-equilibrium processing methods, nanocomposites, structural materials, and functional materials.

Education

University of California, Riverside Doctor of Philosophy, Mechanical Engineering (GPA: 3.76/4.0) <i>GAANN Fellow (2019)</i>	2017-2021(expected)
University of California, Riverside Bachelor of Science, Mechanical Engineering (GPA: 3.24/4.0)	2013-2017

Research

Undergraduate Research at UC Riverside <ul style="list-style-type: none">Accumulative Roll Bonding (ARB) of nickel plated IF steel to increase strength.Roll Bonding metallic glass sheets with alternating layers of nickel foil to enhance the plasticity of the metallic glass, increasing its effective strength.	(Jan. 2016-June 2017)
Graduate Research at UC Riverside <ul style="list-style-type: none">Utilize non-thermal plasma to synthesize amorphous, non-stoichiometric SiC nanopowders, followed by spark plasma sintering to consolidate the powders into bulk materials with metastable structures and unique properties.	(Sept. 2017-Present)

Technical Skills

<ul style="list-style-type: none">XRDSEMEDSMetallographyMechanical Testing	<ul style="list-style-type: none">MachiningSpark Plasma Sintering (SPS)Non-Thermal Plasma SynthesisVacuum Systems	<ul style="list-style-type: none">SolidWorksMatlabOrigin
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Fellowships and Grants

Dean's Distinguished Fellowship	2017-2018
Dept. of Ed., Graduate Assistance in Areas of National Need (GAANN)	2017-2019

Professional Societies and Committees

The Minerals, Metals, and Materials Society (TMS)	2016-Present
Mechanical Behavior of Materials Committee	2017-Present
Institute of Electrical and Electronics Engineers (IEEE)	2016-2017
Nanomechanical Behavior of Materials	2020-Present