Introduction

Ali Vahdati, PhD
Assistant Professor of Engineering, Department of Engineering
Expertise in Biomedical and Mechanical Engineering
Integration of mechanics, medicine and biology

Professional experience prior to joining ECU:
- Senior Engineer, Corporate Office of Science, Medicine and Technology, Becton Dickinson, Research, Triangle Park, NC, USA
- Research Associate and Clinical Assistant Professor, Cleveland Clinic, Cleveland, OH, USA
- Postdoctoral Fellow, KU Leuven (University of Leuven), Leuven, Belgium
- Research Associate, University of Sheffield, United Kingdom
- Graduate Assistant, Department of Aerospace and Mechanical Engineering, University of Notre Dame, Indiana, USA

Approach to integration of research and teaching using computer models

Sample student projects

Student projects and success stories

- One NSF Graduate Research Fellowship, awarded last year to Shea Middleton who is currently a graduate student in my lab
- Two NC Space/NASA scholarships, 8000$ each, awarded to Elliot Paul who is currently an undergraduate researcher in my lab, and Olivia Sessoms who was an undergraduate researcher in my lab and is currently pursuing her master’s degree at UC Berkeley on a 40,000$ scholarship
- One Goldwater Scholarship in the amount of 7,500$, awarded to Elliot Paul, joining the ranks of the brightest undergraduate researchers in the nation
- Seven proceedings publications and presentations at the international annual Biomedical Engineering Society Meeting by both my undergraduate and graduate student mentees
- Seven presentations at the State of North Carolina Undergraduate Research and Creativity Symposium
- Six Undergraduate Research and Creative Activity Awards ranging between 1000-2000$

Example: Converting a class project to a journal paper

- Three of my graduate students in BME 6580 Tissue Engineering course were able to publish their class project in a prestigious journal