

Research Professor

Dr. Olivia G. Richards

Professional summary

Dynamic and results-driven Research Professor specializing in Biomedical Engineering with over 11 years of experience leading innovative research projects at Duke University. Seeking to advance the field of medical technology by focusing on prosthetics and biomechanical innovations.

Experience

Research Professor of Biomedical Engineering

2018 - Now

Duke University / Durham, NC

- Lead the Prosthetics and Biomechanics Lab, focusing on advanced prosthetic designs and their impact on mobility.
- Collaborate with a team of engineers and physicians on a groundbreaking project that successfully created a prosthetic limb with enhanced functionality for military veterans.
- Secured \$4M in federal research grants to further study biomechanics and robotic prosthetics.
- Published 15 research papers in top-tier journals and presented at numerous academic conferences worldwide.

Assistant Research Professor of Biomedical Engineering

2014 - 2018

University of California / San Diego, CA

- Managed a research team focused on the development of next-gen prosthetics and wearable medical devices.
- Worked closely with faculty to apply biomechanical theory to practical healthcare innovations.
- Contributed to the design and analysis of bioelectric prosthetics for amputees.

Research Collaborations & Partnerships

National Institutes of Health (NIH)

2020 - Now


Collaborator


Biotech Innovations Ltd.


2017 - 2020

Industry Partner

- Led collaborative research projects with industry partners to develop market-ready prosthetic technologies.
- Contributed to the design of a commercialized smart prosthetic arm currently in clinical trials.

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 Research Triangle Park, NC

Links

LinkedIn: /in/olivia-richards

Education

Ph.D. in Biomedical Engineering

Duke University, Durham, NC

Graduated: 2014

M.Sc. in Mechanical Engineering

Georgia Institute of Technology, Atlanta, GA

Graduated: 2010

B.A. in Bioengineering


University of California, San Diego, CA


Graduated: 2008


Publications


- Advancements in Prosthetic Technology: The Future of Biomechanics (2022)
- Bioelectric Prosthetics: A New Wave of Medical Innovation (2019)
- Wearable Technology for Enhanced Mobility in Aging Populations (2017)

Skills

Biomedical Research and Development 

Laboratory Management and Supervision 

Grant Proposal Writing and Fundraising 

Data Analysis (SPSS, MATLAB) 

Clinical Trials and Testing 