

# Sierra Bonilla

Multi-disciplinary Engineer

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## EDUCATION



2021-2022

### BIOMEDICAL ENGINEERING, MSc

University College London

Award: Distinction (pending completion)

Dissertation: Developing an algorithm for image registration

2016-2020

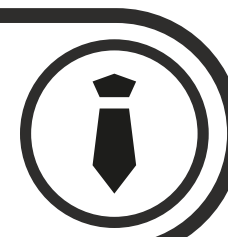
### BIOENGINEERING, BSc

University of Washington

Award: Honors

Minor: Mathematics

## EMPLOYMENT HISTORY



2020-2021

### MEDICAL DEVICE DESIGN ENGINEER

Otonexus Medical Technologies

Acoustic engineer at a start-up, used MATLAB, Python, acoustic and electrical technology. Streamlined transducer calibration process from 3 hours to 2 minutes per device.

2020-2021

### CO-CREATOR/MANAGER FOR NFT PROJECT

OpenSea Marketplace

Created a successful NFT project, lead a small team of two other women, managed marketing, and co-created content.

2018-2020

### RESEARCH ASSISTANT

University of Washington

Paid researcher at an ultrasound therapeutic research team focused on image optimization, CAD, and MATLAB simulations.

2019

### FULL STACK DEVELOPMENT CONSULTANT

University of Washington Medical Center

Created a web application using Python to track and rate disease progression for Cerebral Palsy patients.

2016

### MECHANICAL ENGINEERING INTERN

Intellectual Ventures

## KEY SKILLS



ENTHUSIASM



ELECTRONICS



MATLAB



ADOBE



PYTHON



FUSION 360



ACOUSTICS



ARDUINO/C++



DSP



HTML & CSS



## ABOUT ME



Seeking an internship role starting September 2022 where I can harness my technical skills and passion for software to improve the quality of human life. I am self-motivated and enjoy challenges. I thrive in start-up style environments and enjoy working as part of a small team.

I am pursuing a Master of Science in Medical Physics & Biomedical Engineering and will be pursuing a PhD in September 2023. I am highly multi-disciplinary, but some of my specialties include medical imaging, DSP, MATLAB, Python, research planning and execution.

## ACHIEVEMENT



2021-2022

### ACADEMIC REPRESENTATIVE

University College London

2017-2020

### DEAN'S LIST

University of Washington

2018-2019

### CERTIFICATE OF HIGH SCHOLARSHIP

University of Washington

## PUBLICATIONS



A. Clark, **S. Bonilla**, et al. 2021.  
Ultrasound in Medicine & Biology.

A. Clark, **S. Bonilla**, et al. 2020.  
Talk on Ultrasound Contrast Imaging (25th, Pg. 165).

D. Suo, A. Clark, & **S. Bonilla**, 2019.  
Talk on Therapeutic Ultrasound (Pg. 96).

## REFERENCE



### MARK MOEHRING

Chief Scientific Officer/Otonexus

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