

Sierra Bonilla

Multi-disciplinary Engineer

+44 7713 961437 sierrabonilla14@gmail.com
London, U.K.



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
- MIKE AVERKIOU**
Professor/University of Washington