

JOAO QUINTANILHA

RESEARCH INTERN

B.S. IN BIOLOGY, CLASS OF 2023 TUFTS UNIVERSITY

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RELATED SKILLS

- **General laboratory skills:** pipette, weigh, sterilize, filtrate, titrate
- **Bacteriology:** plasmid amplification, bacterial transformation, protein expression, cell culture
- **Microbiology:** use of restriction enzymes, use of PCR machines, agarose and polyacrylamide gel electrophoresis, cell fractionation, blotting techniques
- **Data analysis:** power BI
- **Graphic skills:** Adobe Photoshop and Illustrator
- **Languages:** Portuguese (Native), English (Fluent), Spanish (Intermediary), French (Beginner)

AWARDS

- **Tisch College Scholar**, Tufts University 2020
- **Top 100 Latin America Leaders in Biotechnology**, Allbiotech 2020
- **Brazilian Student Association Scholar**, BRASA 2019
- **Regional Finalist, Village to Raise a Child**, Harvard University 2017
- **FLL Research Award**, NASA 2017
- **4th place in Innovative Solution**, Worldskills Brazil 2016

WORK BACKGROUND

PUBLIC HEALTH INTERN

Cambridge Health Alliance | August 2020 - Present

- works with the Somerville Determination of Need Project, aiming to determine community health needs and allocate half a million dollars from the Massachusetts Department of Public Health to health initiatives in the region
- works with the Somerville Food Security Coalition, streamlining the system through which food insecurity is assessed and resources are distributed during this quarantine

DATA ANALYST

Anheuser-Busch InBev | June 2020 to August 2020

- worked in the recovery and preservation of 11 hydrographic basins in Argentina, Bolivia, and Brazil
- restructured 42 KPIs of water quality and availability in the basins
- delivered 4 Power BI dashboards for data monitoring in the basins

PROJECT ANALYST

Liaison America | May 2018 - July 2019

- organized 3 international programs for the company
- mentored 7 Brazilians in the development of socio-scientific projects for their communities
- 2 of them were chosen to receive full-ride scholarships in American Colleges

RESEARCH BACKGROUND

BOLMORINGA

National Service for Industrial Training (SENAI) | July 2016 - July 2017

- studied the use of the *Moringa oleifera* seed in homemade water filters from underprivileged regions of Brazil
- applied the method of seed filtration to prevent algae proliferation by regulating excess nutrients in the water (eutrophication), one of the worst environmental problems of the century
- identified a 41% reduction in excess nutrients used by algae

PLASTISSEIRO (PILLOW MADE OF PLASTIC)

SENAI | April 2015 - November 2016

- created an ecological foam composed of recycled polypropylene and polystyrene (plastic bags and cups) to be used in pillows and mattresses
- used the foam in the production of dust mite-proof pillows
- lectured at Saint Bonaventure University and Bluefield College about the Sustainability of Plastisseiro

RELEVANT COURSEWORK

- **Cells and Organisms:** basics of biochemistry, energy flow, gene transfer, and gene expression and learn how this relates to human health and physiology.
- **Organisms and Populations:** analysis of the population growth and its relation to natural selection and evolution.
- **Cell Biology:** molecular/biochemical approach to fundamentals of bioenergetics; emphasis on protein functions and the cells organelles functions.
- **Fundamentals of Chemistry:** chemical nomenclature, physical-chemical properties of matter, chemical reactions, stoichiometry, thermochemistry, and properties of solutions.