NICHOLAS CARLOS BUITRAGO-POCASANGRE

NEW HAVEN COUNTY | (203)-644-6798 | NICHOLAS.BUITRAGO1494@GMAIL.COM

Meticulous and fast-learning researcher skilled in molecular techniques and able to clearly communicate information from the scientific to the general population in both English and Spanish

EDUCATION

MS Neuroscience | University of Hartford | Aug 2017 – Aug 2020 | GPA: 3.9/4.0

Intraoperative Neuromonitoring Graduate Certificate | University of Connecticut | Summer 2018

BS Psychology | University of Connecticut | Aug 2012 - May 2016 | GPA: 3.5/4.0

SKILLS

Biochemical Assays, Data Analysis, Experimental Design, Flow Cytometry, Prism, Histology, Immunology, LDMS, Neuroscience, Public Speaking, PBMC Isolation, RT-qPCR, Spectrometry, and SSPS

RESEARCH EXPERIENCE

Neuroimmunology Project Manager | Yale Medical School | Mar 2021 – Present | Dr. David Hafler

- Manage projects exploring immunity of ocrelizumab in MS, TIGIT/PD-1 in GBM, and microbiome of RBD and PD particularly interested in B-cells, T-cells, monocytes, and various cytokines
- Perform flow cytometry on human blood, brain, and CSF samples for basic science and clinical trial research
- Responsible for several core research management system, such as Freezerworks, LDMS, and OnCore

Full-Time Research Assistant | Qx Therapeutics | Mar 2020 - Mar 2021 | Dr. Dan Wu

• Research drug development for lung injuries involving BAL, genotyping mice, and IP and IV injections

"Ketogenic Diet in Alzheimer's" | University of Hartford | Dec 2018 – Mar 2020 | Dr. Paola Sacchetti

- Thesis project was a pilot study that used transgenic mice for behavior, blood collection, nuclear and RNA extraction, enzymatic protein assays, PCR, RT-qPCR, and raw data analysis using PRISM and SSPS
- Presented at NEURON Conference (2020) and Partnership for Innovation and Education Seminar (2019)

"Probiotics in Alzheimer's" | University of Hartford | Oct 2017 – Dec 2018 | Dr. Paola Sacchetti

 Dissected brains, cut neural tissue on cryostat and vibratome, optimized several antibody protocols for immunofluorescent and colorimetric histology, imaged slides with QCapture, and counted cells using ImageJ

Lab Manager | Murine Behavioral Neurogenetics Facility | May 2016 - Aug 2017 | Dr. R Holly Fitch

 Oversaw collaborative projects across departments and trained undergraduate students to run behavioral neuroscience experiments, such as Operant Chamber Box and Morris Water Maze

"Neurobiology of Sound" | University of Connecticut | May 2015 – May 2016 | Dr. Heather Read

 Behavioral lab work focused on the neurobiology of sound perception aimed to develop new strategies for prosthetic hearing devices, speech recognition, and identifying auditory processing disorders

PUBLICATIONS

Kim, D., Biancon, G., Bai, Z., VanOudenhove, J., Liu, Y., Kothari, S., Gowda, L., Kwan, J. M., Buitrago-Pocasangre, N. C., Lele, N., Asashima, H., Racke, M. K., Wilson, J. E., Givens, T. S., Tomayko, M. M., Schulz, W. L., Longbrake, E. E., Hafler, D. A., Halene, S., Fan, R., Microfluidic Immuno-Serolomic Assay Reveals Systems Level Association with COVID-19 Pathology and Vaccine Protection. Small Methods 2023, 2300594. https://doi.org/10.1002/smtd.202300594

OTHER WORK EXPERIENCE

Biology Graduate Teaching Assistant | University of Hartford | Aug 2017 - Dec 2019 | Jon Larsen

Front Desk Receptionist | Counseling & Psychological Services | Aug 2018 – Dec 2019 | Dr. Jeffrey Burda

Server (seasonal) | Cornerstone Caterers | Nov 2012 – Nov 2019 | Gary Stone

HONORS

Partnership for Innovation and Education Program | REACH Scholarship | Research & Teaching Assistantship