JONATHAN HUML

111 Western Avenue, 6 Soldiers Field Park, Boston, MA 02163
919-423-4263 ⋄ jrhuml@gmail.com ⋄ linkedin.com/in/jonhuml

EDUCATION

University of North Carolina-Chapel Hill 2020

Mathematics (B.A.), Statistics (B.S.), GPA: 3.7

Harvard University Fall 2021 - May 2023

Computational Science and Engineering (M.E.), GPA: 4.0

EXPERIENCE

Computation, Representation, and Inference in Signal Processing Group 2021-present

Research Assistant. Manifold learning algorithms for compressive sensing and sparse coding problems

Drug Information Association Adaptive Design Scientific Working Group 2021

Formulated a more rigorous statistical basis for regulatory guidance on adaptive trial designs, culminating in a book chapter published in December 2021

IQVIA Data Science Intern 2019

Built a text analysis program for quality reports using deep learning (CNNs, RNNs) with Keras. Performed modeling and statistical sampling for the Quality Assurance department.

Grant Lab @ NCSU 2019 - 2020

Extended my work at the UNC Makerspace on autonomous wheelchairs; Swift, iOS development with Python/MQTT and microcomputer programming with Raspberry Pi

UNC Makerspace and Machine Shop 2017 - 2019

Budgeted, managed a project to build a high performance, low-cost wheelchair with Arduino, C++; implemented computer vision algorithms

SKILLS AND PERSONAL DEVELOPMENT

Data science: Advanced in Python (Keras, Tensorflow, Scikit-Learn) and R
Web development: HTML, CSS, Django framework
Spark, Excel, MySQL, SQL
Eagle Scout (youngest in Troop 424 history)
Private pilot license, light-sport aircraft training (70+ hours)

PUBLICATIONS

1. "Use of Big Data to Aid Patient Recruitment for Clinical Trials Involving Biosimilars and Rare Diseases." (DOI: 10.1007/s43441-019-00009-1)
2. "Accelerating Rare Disease Drug Development: Lessons Learned from Muscular Dystrophy Patient Advocacy Groups." (DOI: 10.1007/s43441-020-00221-4)
3. "Patient Benefits from Innovative Designs in Rare Diseases." *Rare Disease Drug Development*. Springer. 2021.