

Therese Curtis

101 Stadium Dr., Chapel Hill, NC 27514

Professional Profile

An eager and driven University of North Carolina at Chapel Hill student with a sound understanding of higher level mathematics and artificial intelligence. Has experience in a psychology, biocomputation, and pharmacology laboratory. Uses the creative intuition gained from engineering inside and out of the laboratory setting.

Education and Qualifications

Associate in Science, Pitt Community College (May 10, 2017)

GPA: University of North Carolina at Chapel Hill: 3.64, Pitt Community College: 4.0

Major: Biomedical Engineering (Chapel Hill), Honors Carolina

Publications (In Preparation):

Curtis T, Wang C, Lee K, Fine-Grained Denoising of Live Cell Images Using Convolutional Neural Networks Without Ground Truth

Poster Sessions

Curtis T, Wang C, K Lee, Fine-Grained Denoising of Live Cell Images Using Convolutional Neural Networks Without Ground Truth. Poster presented at: The Biomedical Engineering Society National Conference; 2019 Oct 15-17; Philadelphia, PA

Work Experience

August 28th- Current Teaching Assistant: The Department of Biomedical Engineering at the University of North Carolina at Chapel Hill

Condensed and compartmentalized information learned in the classroom into a series of inventive examples and exercises. Took on the role of classroom assistant, developing skills in oral communication.

May 28th-Current Research Experience for Undergraduates (REU): Worcester Polytechnic Institute: Lee Lab

Developed a neural network that denoised fluorescence microscopy without a ground truth. Ran experiments autonomously and presented a poster to the Biomedical Engineering department at the end of the summer. Presented finding again at the Biomedical Engineering Society National Conference in October. In the process of publishing. Continues to work on this research remotely.

2018-2019 Undergraduate Researcher: Kash Lab

Produced optic ferrules and other technology for the laboratory. Trained in brain slicing, mounting tissue, and mouse handling and care. Took charge of a pilot study. Worked collaboratively with lab to produce and analyze optogenetic data.

Other Relevant Experience

September-10th- Current Head Scientific Researcher, X2Health

X2 Health is currently developing a non invasive HPV detection device. Attended meetings and performed literature reviews with the goal of creating additional filter technology. Prepared original pitches and earned a monetary prizes at North Carolina based pitching competitions (I4)

May 25th, 2016-2018 President/Founder, The Mathematics Association of Pitt Community College

Ignited a group of passionate students, giving them an outlet to explore the latest in mathematics. Coordinated with guest speakers and created accompanying materials for discussion topics.

Skills

Languages: MATLAB, Python,

Operating Systems and Software: Tensorflow, Linux, LabVIEW, Arduino, Solidworks, NI Multisim, Cura

