**Yujian ‘Charles’ Tang**

University of North Carolina, Chapel Hill

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**RESEARCH INTERESTS**

My current research topic is on training neural networks to learn the segmentation of subcortical structures in macaque brains using deep learning on a convolutional neural network. Previous research experience includes image processing in neuroimaging, and data cleaning for mobile crowdsensing. Future research interests are in biomedical applications of machine learning particularly robotics and imaging.

**EDUCATION**

**University of North Carolina at Chapel Hill (Expected)** Chapel Hill, NC

B.S., Computer Science August 2015-May 2019

Minors: Statistics, Neuroscience

**PRESENTATIONS, PRECEDINGS, AND PAPERS**

*Reputation-Aware Data Fusion and Malicious Participant Detection in Mobile Crowdsensing* (Submitted) Seattle, WA

IEEE Big Data 2018, BigCyber Workshop December 10-13, 2018

*Adapting the CIVET Pipeline to Rhesus Macaque Brains* Raleigh, NC

State of North Carolina Undergraduate Research Symposium November 10, 2018

*Adapting the CIVET Pipeline for Macaque Brains* Chapel Hill, NC

University of North Carolina Computer Science Research Symposium April 16 2018

**RESEARCH EXPERIENCE**

**Neuro Image Research and Analysis Labs** Chapel Hill, NC

Research Assistant August 2018-Present

Mentor: Dr. Martin Styner

**Research Experience for Undergraduates, National Science Foundation** Miami, FL

Research Intern May 2018-August 2018

Mentors: Dr. Niki Pissinou, Samia Tasnim

**Neuro Image Research and Analysis Labs** Chapel Hill, NC

Research Assistant June 2017-May 2018

Mentors: Dr. Martin Styner, and Dr. Sun-Hyung Kim

**WORK EXPERIENCE**

**Department of Computer Science, UNC** Chapel Hill, NC

Undergraduate Learning Assistant (COMP 283) Fall 17, Spring 18, Fall 18

Instructor: Dr. David Plaisted

**ITS Franklin, UNC** Chapel Hill, NC

Middleware Intern June 2017-August 2017

**Department of Computer Science, UNC** Chapel Hill, NC

Undergraduate Learning Assistant (COMP 410) Fall 2016

Instructor: Dr. David Stotts

**nCino** Wilmington, NC

Developer Intern June 2016-August 2016

**HONORS**

NC State Math Contest Scholarship Winner, 2015

Undergraduate Learning Assistant of the Year Nominee, 2018