

## **Yujian ‘Charles’ Tang**

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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)**

B.S., Computer Science  
Minors: Statistics, Neuroscience

Chapel Hill, NC  
August 2015-May 2019

### **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      May 2018

### **RESEARCH EXPERIENCE**

#### **Neuro Image Research and Analysis Labs**

Research Assistant  
Mentor: Dr. Martin Styner

Chapel Hill, NC  
August 2018-Present

#### **Research Experience for Undergraduates, National Science Foundation**

Research Intern  
Mentors: Dr. Niki Pissinou, Samia Tasnim

Miami, FL  
May 2018-August 2018

#### **Neuro Image Research and Analysis Labs**

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

Chapel Hill, NC  
June 2017-May 2018

### **WORK EXPERIENCE**

#### **Department of Computer Science, UNC**

Undergraduate Learning Assistant (COMP 283)  
Instructor: Dr. David Plaisted

Chapel Hill, NC  
Fall 17, Spring 18, Fall 18

#### **ITS Franklin, UNC**

Middleware Intern

Chapel Hill, NC  
June 2017-August 2017

#### **Department of Computer Science, UNC**

Undergraduate Learning Assistant (COMP 410)  
Instructor: Dr. David Stotts

Chapel Hill, NC  
Fall 2016

#### **nCino**

Developer Intern

Wilmington, NC  
June 2016-August 2016

### **HONORS**

NC State Math Contest Scholarship Winner, 2015  
Undergraduate Learning Assistant of the Year Nominee, 2018