

## **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. I hope to do more research in natural language processing and other biomedical applications of machine learning.

### **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*  
IEEE Big Data 2018, BigCyber Workshop

Seattle, WA  
December 10-13, 2018

*Adapting the CIVET Pipeline to Rhesus Macaque Brains*  
State of North Carolina Undergraduate Research Symposium

Raleigh, NC  
November 10, 2018

*Adapting the CIVET Pipeline for Macaque Brains*  
University of North Carolina Computer Science Research Symposium

Chapel Hill, NC  
April 16 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**

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