

## **Yujian ‘Charles’ Tang**

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Home Address: 853 River Song Pl, Cary, NC 27519  
Citizenship: US Citizen

### **EDUCATION**

#### **University of North Carolina at Chapel Hill – Cumulative GPA 3.3**

Bachelor of Science in Computer Science, Degree Expected May 2019 (3.3)

Minors in Statistics (3.9) and Neuroscience (3.4)

Relevant Coursework: Data Structures and Algorithms, Computer Organization, Models of Language and Computation, Discrete Structures, Calculus I, II, & III, Calculus Based Mechanics, Probability, Algorithm Analysis, Linear Algebra, Digital Logic, Stochastic Models, Statistical Methods, Operating Systems, Machine Learning

### **HONORS**

Undergraduate Learning Assistant of the Year Nominee, 2018

NC State Math Contest Scholarship Winner, 2015

### **PRESENTATIONS, PRECEDINGS, AND PAPERS**

- *Reputation Aware Data Fusion and Malicious Participant Detection in Mobile Crowdsensing* – IEEE Big Data 2018, BigCyber Workshop – Dec 10-13, 2018 Seattle, WA
- *Adapting the CIVET Pipeline to Rhesus Macaque Brains* – State of North Carolina Undergraduate Research Symposium – Nov 10, 2018 Raleigh, NC
- *Adapting the CIVET Pipeline to Macaque Brains* – University of North Carolina Department of Computer Science Research Symposium for Undergraduates, April 16, 2018 Chapel Hill, NC

### **RESEARCH EXPERIENCE**

#### **Fall 2018 – Current, Research Assistant, Neuro Image Research and Analysis Labs, UNC, Chapel Hill, NC**

- Creating a convolutional neural network for segmentation of subcortical structures in macaque brains using NiftyNet with TensorFlow

#### **Summer 2018, Research Experience for Undergraduates, National Science Foundation, Florida International University, Miami, FL**

- Designed a Correlated Data and Reputation Aware data cleaning mechanism
- Improved data accuracy by 16%, on average, over existing method

#### **Summer 2017 – Spring 2018, Research Assistant, Neuro Image Research and Analysis Labs, UNC, Chapel Hill, NC**

- Developed script to generate cortical surface of a macaque brain through the use of the CIVET pipeline

### **WORK EXPERIENCE**

#### **Fall 2017 – Present, Undergraduate Learning Assistant for Discrete Structures Course, Computer Science Department, UNC, Chapel Hill, NC**

- Taught lecture on induction
- Grade and provide feedback on homework and exams
- Hold review sessions for exams

#### **Summer 2017, Middleware Intern, ITS Franklin, UNC, Chapel Hill, NC**

- Migrated over 200 applications from RedHat OpenShift v2 to v3

#### **Fall 2016, Undergraduate Learning Assistant for Data Structures and Algorithms Course, Computer Science Department, UNC, Chapel Hill, NC**

- Held office hours three times a week to improve student’s understanding of the course material
- Graded and provided feedback on assignments

#### **Summer 2016, Developer Intern, nCino, Wilmington, NC**

- Increased efficiency of automated setup of 6 different types of new Salesforce orgs by and tested them through Provar

### **LEADERSHIP EXPERIENCE**

- 2018-2019 Governor of Ram Village, 2017-2018 Lieutenant Governor of Ram Village
- Academic, Brotherhood, Rush, and Social Chair, Pi Alpha Phi Fraternity Inc.