**Yujian ‘Charles’ Tang**

yujian@live.unc.edu • Phone: (919) 741-4667

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, Major GPA

Minors in Statistics and Neuroscience

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 Methods, Statistical Modeling, Operating Systems, Machine Learning

**HONORS**

NC State Math Contest Scholarship Winner, 2015

Undergraduate Learning Assistant of the Year Nominee, 2018

**PRESENTATIONS, PRECEDINGS, AND PAPERS**

* University of North Carolina Department of Computer Science Research Symposium for Undergraduates, Spring 2018
* *Adapting the CIVET Pipeline to Rhesus Macaque Brains* – State of North Carolina Undergraduate Research Symposium – Nov 10 2018
* *Reputation Aware Data Fusion and Malicious Participant Detection in Mobile Crowdsensing* – IEEE Big Data 2018, BigCyber Workshop – Submitted, decisions Nov 1 2018

**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

**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 get the cortical surface area of a macaque brain through the use of the CIVET pipeline
* Produced test cases leading to better white matter surface generations

**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.

**RELATED SKILLS**

* Imaging: ITK, CIVET, 3DSlicer
* Programming: Python 2 and 3, Java, C++, tcsh
* Software: NiftyNet, TensorFlow