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 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

- *Reputation Aware Data Fusion and Malicious Participant Detection in Mobile Crowdsensing* – IEEE Big Data 2018, BigCyber Workshop – Dec 10-13, 2018
- *Adapting the CIVET Pipeline to Rhesus Macaque Brains* – State of North Carolina Undergraduate Research Symposium – Nov 10 2018
- University of North Carolina Department of Computer Science Research Symposium for Undergraduates, Spring 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 and tested them through Provar

Summers 2013, 2014, 2015, ETI Intern, IBM, Durham, NC
- Gained industry experience as a high school intern
- Managed internal website for ETI
- Created a tutorial on Raspberry Pi cars

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_SNAP, Simple ITK, CIVET, 3DSlicer
- Programming: Python 2 and 3, Java, C++, shell scripting, C, System Verilog
- Software: NiftyNet, TensorFlow, Salesforce, nCino