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 (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

Undergraduate Learning Assistant of the Year Nominee, 2018
Pitch Party Winner – VINCI, 2017
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
- *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, CIVET, 3DSlicer
- Programming: Python 2 and 3, Java, C++, shell scripting, C, System Verilog, JavaScript
- Software: NiftyNet, TensorFlow, Salesforce, nCino
- Development: Git, Jira