

# Han Wang

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## EDUCATION

**University of North Carolina at Chapel Hill, Chapel Hill, NC**

August 2016 – December 2019

*B.S. Computer Science, Mathematics*

- Major GPA: 3.83/4.00 in Computer Science, 3.82/4.00 in Mathematics
- Graduating with Honors in Computer Science
- Relevant courses: Modern Web Programming, Files and Database, Software Engineering, Data Structure, Computer Organization, Models of Languages and Computation.
- Paper in preparation:
  1. H. Wang, M. Mostapha, S. Jing, H. Hazlett, M. Graves, J. Hong, M. Styner. The Application of Convolutional Neural Networks for Subcortical Structure Segmentation.
  2. A. Testen, M.J. Gastinger, H. Wang, R. Kim, K.J. Reissner. Mechanism for the effects of cocaine self-administration on astrocytes revealed by custom filament-based structural analysis.

## SKILLS

Technical skills: Most experienced with HTML, CSS, Less, Sass, Javascript, jQuery, Angular JS, Bootstrap, MATLAB. Some experience with MySQL, Java, PHP, C++, Python, Linux

Other skills: Mandarin(native speaker), English(proficient), Piano, Video Editing, Illustration

## WORK EXPERIENCE

*Front-End Development Intern, Alibaba Group Headquarter, Hangzhou, China*

June 2019 – August 2019

- Assisted in the design and development of intranet website used by Alibaba Group research staff
- Advanced functions of administration management system for the Strategy and Relations Department
- Migrated the sites for staff to uploads research paper

*Front-End Developer, CPM Continuous Precision Medicine, Durham, NC*

March 2018 - August 2018

- Designed and developed the portal website using Bootstrap and jQuery for doctors to manage pain-killer prescription
- Assisted in development of Android app using Android Studio for patients to rate their pain level and report the times they took the meds to their physicians

*Student Researcher, Neuro Image Research and Analysis Laboratories, UNC, Chapel Hill, NC*

August 2018 – Present

- Designed and developed python scripts to process raw data and improve image feeding efficiency
- Created the model that can segment 1-2 year-old infants' subcortical structures at above 85 percent of accuracy

*Research Assistant, Reissner Lab, UNC, Chapel Hill, NC*

April 2018 – Present

- Developed MATLAB scripts to analyze the morphology of astrocytes from cocaine-addicted rats, focusing on the change of the number and types of branching nodes
- Developed AutoHotKey and VBA scripts to automate the process of data generalization and analysis by generating excel sheets that shows numerical data from thousands of cells automatically

## LEADERSHIP & EXTRACURRICULARS

*Undergraduate Teaching Assistant, Chapel Hill, NC*

August 2018 - December 2018

- Coordinated monthly review sessions and prepared study materials for students
- Facilitated in-class learning and out-of-class office hours

*Intern of Council on International Education Exchange (CIEE), Rice University, Nanjing, China*

June 2017 – August 2017

- Provided technical support for classes and assisted out-of-class activities

*Member of UNC Weather Balloon project, UNC BEAM Club, Chapel Hill, NC*

2016 - 2017

- Designed electrical devices used on the weather balloon, including GPS and mini camera

*Founder and Leader of High School Physics Team, Nanjing No.29 High School, Nanjing, China*

2015 - 2016

- Founded and led the first Physics team in Nanjing No. 29 High School
- Organized practices for Jiang Su Youth Physics Tournament and won the third place