

# Xinwen Wang

Phone: (631)-687-7589  
110-4 Summerhill Plaza, NY 14850

E-Mail: [xinwen@cs.cornell.edu](mailto:xinwen@cs.cornell.edu)  
Github: <https://github.com/JASONews>

## Education

Computer Science Ph.D.	May 2023
Cornell University	GPA 3.78/4.0
Computer Science B.S.	May 2017
Stony Brook University	GPA 3.95/4.0

## Research Experience

PhD Student                      Heterogeneous Consensus                      2017 – 2018  
Implement a Heterogeneous Consensus Algorithm on an Authenticated Distributed Data Structure whose name is Charlotte. Heterogeneous Consensus is invented by Isaac Sheff who is a PhD student at Cornell. The consensus is a variance of the well-know consensus algorithm Paxos. The different is that the Heterogeneous Consensus allows observers define their own groups of quorum and participants; furthermore, two groups of observers with different failure assumptions could have a consensus if certain conditions are matched.

Student(Senior Project)                      BetrFS(OSCAR Lab) at Stony Brook University                      2016 – 2017  
The B<sup>+</sup>-tree File System, or BetrFS, is an in-kernel file system that uses B<sup>+</sup> trees to organize on-disk storage. I am working on designing an algorithm that let B<sup>+</sup>-tree split its nodes wisely in order to improve efficiency of renames in the file system.

Research Assistant                      ICLab at Stony Brook University                      2015 – 2016  
ICLab is a research platform to enable repeatable and representative studies of a broad class of online information controls, such as traffic differentiation, censorship and content modification.

- Develop a headless browser by using selenium, which is a web browser automation.

## Personal & Academic Projects

Implemented part of XV6 Operating System                      2016

- Implement Copy-on-Write(COW) style fork system call.
- Design a multi-level priority feedback schedule policy.
- Implement fast file system(FFS).

DeliveryBoy                      2015  
A cloud based application that allows customers to find a volunteering delivery person. The application is implemented with Nodejs, Express.js and MongoDB.

- Implement backend by using Express framework.
- Implement UI code by using Javascript and CSS.

## Teaching Assistant:

- CS5412 Cloud Computing (Spring 2018, Cornell University)
- CS2110 OOP and Data Structure (Fall 2017, Cornell University)

## Extracurricular Activities

Stony Brook Computer Science Honor Program	2016 – 2017
Academic Achievement Award	2014 – 2015
honored students with 4.0 GPA in the semester	
Dean List	2014 – 2016