

## ABOUT ME

I am a second-year Computer Science Ph.D Student at Stony Brook University. I work in the NetSys Lab with my advisor, [Aruna Balasubramanian](#). My research interests include network performance, mainly peer-to-peer networks and decentralized distributed storage systems.

## EDUCATION

**Ph.D Student in Computer Science**  
Stony Brook University, New York, USA

**Jan 2022 - Present**

GPA: 3.93/4.0

Advisor: [Prof. Aruna Balasubramanian](#)

**B.S. Computer Science**  
Stony Brook University, New York, USA

**Aug 2017 - May 2021**

GPA: 3.80/4.0

## PUBLICATION

### [Is IPFS Ready for Decentralized Video Streaming?](#)

**WWW2023**

ChengHao Ryan Yang, Zhengyu Wu, Santiago Vargas, and Aruna Balasubramanian.

- The video playback experience on IPFS suffers from network instability and static video quality. Traditional ABR streaming performs poorly due to inaccurate network estimation. The proposed IPFS-aware algorithm, called Telescope, can update ABR's estimation on the fly and significantly improve the video playback experience.

## WORK EXPERIENCE

**Graduate Teaching Assistant**  
*Stony Brook University*

**Fall 2021 - Fall 2022**

*New York*

- Graduate teaching assistant for Introduction to Network Administration. Introduced students with hands-on experience on fundamentals of network management, such as TCP/IP networking protocols, hardware, architecture, media, and software.
- Graduate teaching assistant for Computer Networks. Helped students learn the fundamental structure of the Internet.

**Web/Database Support**  
*Stony Brook University*

**Sep 2020 - Dec 2020**

*New York*

- Maintained the Computer Science Department's websites at Stony Brook University by using Drupal, a widely used content management system (CMS), and MySQL.

**Undergraduate Teaching Assistant**  
*Stony Brook University*

**Spring 2019, Fall 2019**

*New York*

- Undergraduate teaching assistant for Computer Science I. Helped students learn the fundamentals of objective programming.
- Undergraduate teaching assistant for Fundamentals of Software Development. Introduced students to systematic design, development and testing of software systems.

**Founder**  
*Hoshiro Entertainment*

**Jun 2018 - Present**

*New York*

- Founded a company services translating games from Japanese to English and Chinese.
- Successfully maintained a group of over 10 translators and helped partners reach over a million dollar in sales.

## SKILLS

**Programming** Python, Go, Java, C, Git, L<sup>A</sup>T<sub>E</sub>X, Markdown

**Communication** Chinese (native), English (business), Japanese (conversational)