

Department of Computer Science Graduate Orientation

Fall 2022

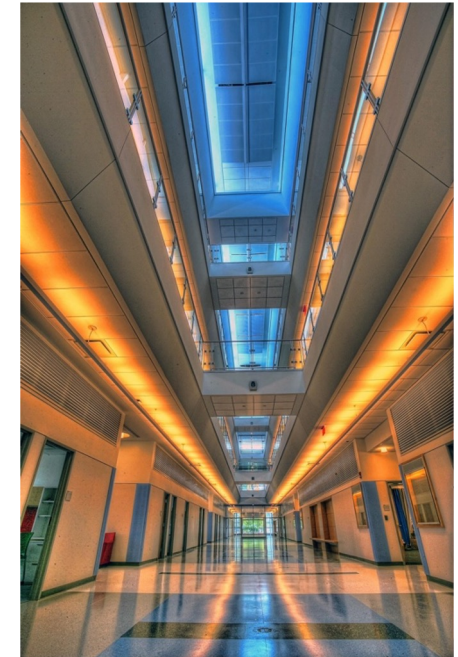
Samir Das, Department Chair



Stony Brook University

One of the Oldest CS Programs in Nation

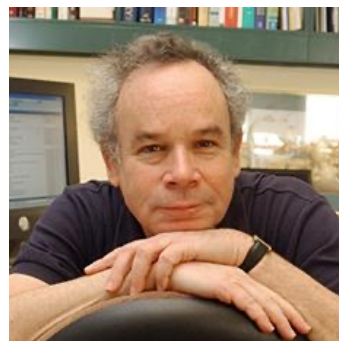
- 1969 *New CS program*
- 2009 *ABET Accreditation*
- 2015 *New CS building*
- 2023 *50-year Anniversary*



**FAR
BEYOND**

Many Notable Alumni

Top row – left -right
John Hennessy, MS '75,
PhD '77
Former President
Stanford University



Abraham Silberschatz,
PhD '78, Yale University



David Gelernter, PhD,
PhD '83
Yale University



Bottom row – left -right
Ben Shneiderman, PhD '73 –
First PhD
University of Maryland

Jon Oringer, BS '96, S.D.'17
Founder, CEO, Shutterstock

Fred Schneider, PhD '83
Past Chair and Professor,
Cornell University

Rankings

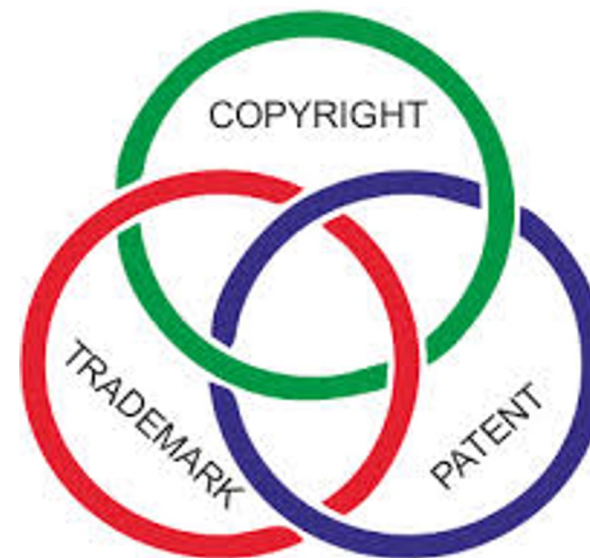
Graduate program/research
rankings among US academic
Institutions:

| | |
|-----------------------------------|------------|
| <i>US News & World Report</i> | 43 |
| <i>csrankings.org</i> | 24 |
| <i>National Research Council</i> | ~20 |



Many Major Inventions

- Automated Deductions
- Concurrency Factory/Workbench
- SBProlog, XSB
- F-Logic, FLORA
- Two-Dimensional Bar Code
- Virtual Colonoscopy
- Address Space Layout Randomization
- AODV Routing Protocol
- ..



CS Faculty and Students By the Numbers

Core Faculty

58

Affiliated and Research Faculty

30+

Admin and IT Staff

16

Annual Research Expenditures

\$13M +

Undergraduate Students

1400+

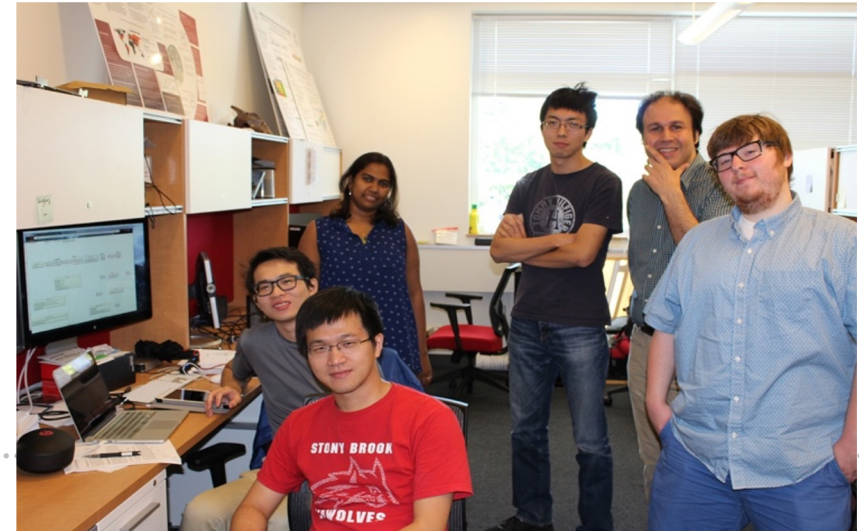
MS Students

300+

PhD Students

200+

Assistant Professor Aruna
Balasubramanian with students from
her NetSys Lab





Stony Brook University

Facilities

New CS Building

- Opened 2015
- \$40.5M project
- 2015 Cabling Innovators Award



Old CS Building

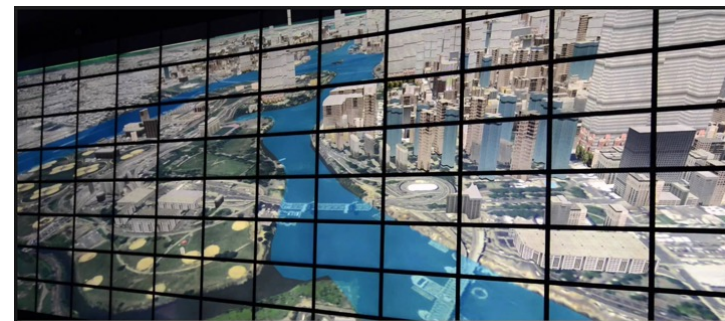
CEWIT (Center for Excellence in Wireless and Information Technology)



**FAR
BEYOND**

Centers & Institutes

- Institute of AI Driven Discovery and Innovation (**AI Institute**)
- National Security Institute (**NSI**)
- Center for Visual Computing (**CVC**)
- Institute of Advanced Computational Science (**IACS**)





Stony Brook University

Major On/Off Campus Partners



Center of Excellence in Wireless and Information Technology (CEWIT)



Advanced Energy Center (AEC)



BROOKHAVEN
NATIONAL LABORATORY



Institute of Advanced Computational Science (IACS)

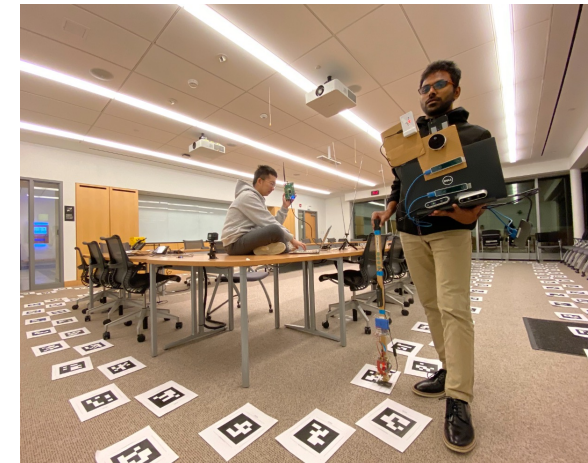
**FAR
BEYOND**

Resources – 18 Labs in Two Buildings

- Applied Algorithms Lab
- Data Management and Biomedical Data Analytics
- Computer Vision Lab
- Smart Energy Lab
- Design and Analysis Research Lab
- Computer Architecture Stony Brook Lab (COMPAS)
- Mobile and Sensor Network Lab
- File Systems and Storage Lab



Above: Immersive Cabin in CEWIT
Below: Students in WINGS Lab



Resources – 18 Labs in Two Buildings

- Secure Systems Lab
- Knowledge Systems Lab
- Performance Analysis of Computer Systems Lab (PACE)
- PragSec Lab
- Research in Software and Systems Security (RiS3) Lab
- Wireless Networking and Systems (WINGS) Lab
- ... many others



Prof. Gandhi and PACE Lab



Stony Brook University

CS Grad Students Organization - CSGSO

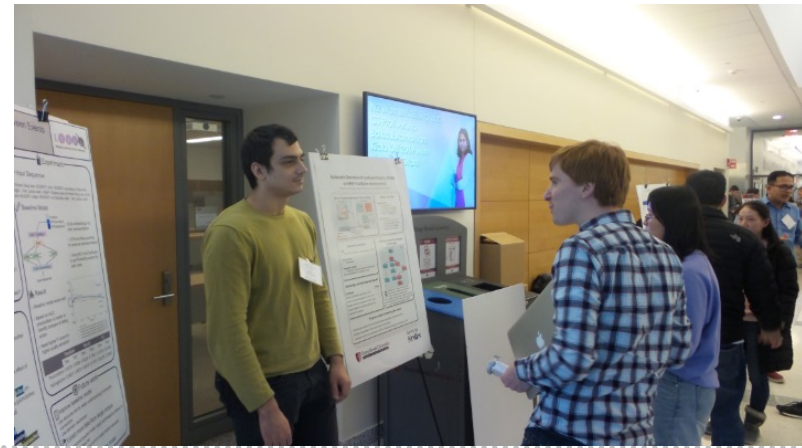


- Lot of social and educational activities.
- Represents CS graduate students to the departmental and campus administration.



Stony Brook University

Annual Graduate Research Day – October 2022



**FAR
BEYOND**

Supportive and Resourceful Career Center



Recruiting events
in the department



Most services were supported virtually
for the last 2 years, but now coming back to normal



Top CS Employers



2019 salary stats:

More than 80% graduates received
>\$110K as a starting salary

