## Instructor

*Spring 2019*
**Stony Brook MAT696**: Computational tools and techniques for STEM
Class Size: 10
Role: Was solely responsible for the entire course from development of the course material through execution of the class.

*Summer 2010*
**IIPM Gurgaon (India)**: Business Mathematics
Class Size: 15
Role: Taught business mathematics to first year students.

## Teaching Assistant

Fall 11/Spring 12/Fall 12
**Stony Brook BUS 220:** (Introduction to Decision Sciences)
Class Size: Two sections (~100+ students)
Role: Held office hours, graded assignments and exams, managed undergraduate TAs, as well as sporadically gave lectures when needed.

## Workshops

• **Programming Summer Camp for High School Students:** IACS Computes! (Instructor), Institute for Advanced Computational Science, Stony Brook University, Stony Brook, NY, July 20-31, 2020.

Over the summer, I ran an intensive two-week Python computing workshop, organized by the Institute for Advanced Computational Science (IACS) at Stony Brook, which required me to structure a short-term intensive course, akin to a winter or summer session course. I was responsible for curating the course material and was assisted by a graduate student for this. The course information and content can be found on the IACS webage and the github repository.

• **A Practical Introduction to Debugging** (Co-organizer), Stony Brook University, Stony Brook, NY, April 13, 2019.

• **Introduction to Python Programming** (Helper), Institute for Advanced Computational Science, Stony Brook University, Stony Brook, NY, Jan 20-21, 2020.

• **Software Carpentry Workshop on Unix Shell, Git and Python** (Helper), Institute for Advanced Computational Science, Stony Brook University, Feb 16-17, 2019.

## Outreach

Spring 2017 - current
Organizer of quarterly STEM webinars at Sustainable Horizons Institute geared towards students and early career professionals.
Number of participants: 40-80

The focus of the webinars is to provide short introductory lectures geared towards early career researchers in computational fields. This included topics such as visualization, machine learning, GPUs, etc. The number of participants at SHI usually varies between 40-80 participants for each webinar depending on the topic. When we started out I was one of the four committee members for organizing the webinar and my main responsibility was arranging for speakers and coordinating with them, but over time, my responsibilities have evolved and I am now the point person for managing the webinars. I usually work with the speaker to narrow down a topic and in ensuring that it will translate well for a broader audience with mixed academic backgrounds and interests, given the constraints of remote learning. This involves doing practice sessions with the speakers, going through the exercise problems to work out any kinks and offering the “office hours” before the webinars to help the participants with any installation and any other technical difficulties and staying with them after the webinar to help them through debugging and implementation, if that is needed.

I am also responsible for applying for educational allocations and managing user accounts on the supercomputing clusters and providing the participants access to them for some of our webinars. Through our webinars, we especially focus on training first generation scholars and  minorities in academia. Through our surveys and feedback, we have found that the extra help that we offer before and after the webinars is helpful in creating productive and interactive learning environments for everyone and particularly for the targeted groups.