

## TEACHING STATEMENT

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I teach for the satisfaction I experience when a student understands a concept. I feel elated when I try to learn new ideas and understand them. It is personally very uplifting to me when I get to see my students experience similar emotions. In addition, I adore the chance to share my knowledge with my students.

I love teaching at all computer science levels, particularly my interest in Introductory Computer Science, Artificial Intelligence, Machine Learning Courses, and Data Science. I developed and taught CS1160: Introduction to programming at Wright State University. The course aimed to attract more students towards computer science and teach them real-world data science implementations. The class was a huge success with two sections. I love drawing students into the field through the introductory courses, especially women. I firmly believe that the introductory courses instill interest and motivate students for the higher-level courses.

I strongly believe in interactive classes as opposed to one-way teaching. I encourage students always to ask questions. I try to involve the silent students to regularly speak up by coming up with some fun interactive games in the classroom. For example, I divided the students into six different groups in my previous course and designed a quiz game. The table that answers the question right will receive a piece of candy for every student at the table. One student must not answer a question more than once. This method encouraged all students to participate and helped build teamwork for their group projects later on in the course. One of the student groups in my class won the ACM programming competition for the best Freshmen team.

The techniques above ignite curiosity in a student, and computer science requires a curious mind to learn more. Once a student is interested in the subject, I provide them with the apparent facts of the subject. Then I implore them to explore the logical thinking mindset required to succeed in computer science independently by guiding them to do so with some examples. These examples serve as guidance to the student to verify their thought process. This kind of interactive, hands-on teaching allows the student to learn more effectively and encourages them to be more confident to express themselves. I also take regular feedback from students to make any changes necessary to my teaching style.

Furthermore, I believe a student will learn a lot from projects, research opportunities. So, I always try to include at least one small project for the course. I also worked with two master's students in my lab to guide them with the projects in my lab. While I was an instructor at Wright State, I also guided two Teaching Assistants (TAs) in my class. Explaining TAs clearly with the desired outcomes will help students a lot with understanding the subject. I also would love to collaborate with other teachers and work with them to learn from and teach them good techniques or tips useful in teaching.

Finally, I wish to reemphasize the role of a good teacher in a student's life and help them excel in their field. I was personally motivated by Dr. Michael Cox and Dr. Michelle Cheatham, who still serves as my advisor and co-advisor. Dr. Cox motivated me to pursue Ph.D., and Dr. Cheatham introduced me to her research projects when I took her course. They both served as my advisor and co-advisor, which have an everlasting impact on my student life. I wish to be that in a student's life someday.