Computing and Data Science Education with Human Contexts

Speaker: Dr. Lisa Yan, UC Berkeley

Abstract: There are many layers to an undergraduate classroom in Computer Science (CS) and Data Science: a constantly evolving technical skill set, a plethora of real-world applications (and their accompanying sociopolitical conversations), and an increasingly large and diverse student body. As educators, we simultaneously design a curriculum to address the shifting demands of a professional skilled workforce along with a classroom experience that caters to the needs of both student and teacher.

In this talk, I share three initiatives towards constructing an ecosystem at UC Berkeley that centers human contexts in CS/Data Science education. (1) Curriculum: I enhance peer-to-peer discussion via small asynchronous forum posts in a large, required ethics course for the EECS undergraduate degree. (2) Course policies: The Flextensions tool increases flexibility in student accommodation with minimal additional course staff time; it automates "soft" assignment deadlines and leverages data to facilitate student support in large courses. (3) Teacher training: I have developed a new pedagogy course for TAs in Data Science that addresses the pedagogical needs of this interdisciplinary field alongside core values of student inclusion, social justice, and culturally relevant pedagogy.

Nov. 14, 2024
THURSDAY

4:00 PM
BSS#166

FOR MORE INFO GO TO HTTPS://MATH.HUMBOLDT.EDU/GET-INVOLVED/MATHEMATICS-COLLOQUIUM

WE CORDIALLY INVITE YOU TO THE PRE-COLLOQUIUM TEA IN BSS#312
AT 3:30 PM