

Fairness and Bias in AI

Spring 2021



How do algorithms discriminate?

Where are biased algorithms used?

What can we do about it?



University of Colorado **Boulder**

INFO 4871

CSCI 4830*

*Prerequisites can be waived

*Satisfies ethics requirement

Fairness and Bias in AI

CU Boulder, Spring 2021

Instructors: Robin Burke, Bo Waggoner
Tuesdays, 4:10pm - 6:30pm

INFO 4871
CSCI 4830*

*Prerequisites can be waived. Satisfies ethics requirement.

Overview: Sophisticated artificial intelligence (AI) algorithms are gaining wide applications in all areas of life, from criminal justice to medicine to online dating. Although such systems may appear neutral at first, there is increasing concern that they can encode, reproduce, and perpetuate harmful discriminatory biases. In this course, students will explore: a variety of types of AI systems; application areas where they are deployed; and their potential for producing unfairness and discrimination. Students will learn about the potential sources of bias in AI systems, how such systems can be audited for fairness, and how harms can be addressed by appropriate design and stakeholder involvement.

Intended for students in their third year or higher.

This class will be taught synchronously as a remote section, which means classes will be held virtually during the days and times listed.