Data equity in biostatistics education: development and dissemination of a new open-access teaching data resource

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Keywords

Abstract

Within statistics education, there is a push for inclusive teaching with a focus on data equity. Across fields, the benefits of inclusive teaching is well established (Sathy & Hogan, 2023). Additionally, the importance of data equity had gained traction since 2020 (Bocala & Boudett, n.d.; Gaddy & Scott, 2020; Krause, 2022). However, in the statistics classroom, there is a delay in social-centric curriculums. Many universities address data equity is a separate course, including the OHSU-PSU School of Public Health, but do not integrate it into foundational statistics courses. Some faculty and institutes are working towards inclusive teaching using a data equity framework (Dogucu et al., 2023). However, proposed frameworks are not backed by systematic investigation, which leaves them vulnerable to critique.

My current research, at its initial stages, aims to systematically demonstrate that teaching with data equity lens leads to increased critical thinking and analysis skills. Within this research, it is important to create open-access materials, so that other educators can easily use course materials. I will be presenting on developed open-access materials, which highlights publicly available teaching lessons, assignments, and class activities that put DEIJ-centered conversations at the forefront. In the talk, we will walk through one dataset and its accompanying activities. Audience members will develop skills around data equity, spark innovative ways to bring DEIJ-focused conversations to technical classes, and become familiar with an open-access dataset to use in their classroom. The purpose of this talk is to introduce the open-access teaching dataset resource to a wide audience, learn their specific needs for the resource, and invite conversation about DEIJ-focused material within technical classrooms.

Objectives

By the end of this session, the audience will be able to...
- Navigate through the teaching dataset resource
- Access desired lesson plans through a specific social topic
- Understand important considerations of faculty using a socially-focused dataset

References

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