

Title: Data acumen and data numeracy: helping students extract meaning from data

Abstract: Our world is awash in data. How can we prepare students to make sense of it? In this talk I will argue for a broadening of quantitative literacy and quantitative reasoning to incorporate "data acumen" and suggest ways that these capacities can be developed and nurtured. I will outline approaches and techniques that can help students develop a foundation to create and critique sophisticated arguments using data.

Biography: Nicholas Horton is Beitzel Professor of Technology and Society (Statistics and Data Science) at Amherst College. He is a fellow of the American Statistical Association and the American Association for the Advancement of Science. Nick served on the American Statistical Association GAISE (Guidelines for Assessment and Instruction in Statistics Education) report working group, was a member of the writing group for the Two Year College Data Science Summit, was an author of the National Academies "Data Science for Undergraduates" report and chaired the ASA's guidelines group for undergraduate statistics programs. He serves on the National Academies Committee on Applied and Theoretical Statistics and the Roundtable on Postsecondary Data Science Education.