Title: Bringing Statistics Education Up to Data

Date/Time: Thursday, November 21 4:00–5:30 p.m.
Informal reception to follow at approximately 5:45 p.m. at Bertucci's at 2000 Pennsylvania Ave. NW 20006

Speakers: Danny Kaplan, Macalester College & Carol L. Howald, Howard Community College

Chair: Ashley Schreckengost, Resource Teacher (head of Mathematics Department), Wheaton (MD) High School

Sponsors: WSS (Washington Statistical Society) Statistics Education Committee and MD-DC-VA Section of the MAA (Mathematics Association of America)

Location of Talk: Commons, School Without Walls, 2130 G St NW, Washington, DC 20037, Closest Metrorail station is Foggy Bottom-GWU.

RSVP: To be placed on the seminar attendance list**, email by November 20** to Carol Joyce Blumberg at cblumberg@gmail.com including the following for each person: Name (as it appears on your ID), Affiliation (e.g., student at xxxx or statistician at yyyy), and Email Address. You will need to bring a photo ID to enter the building.

Abstract: With the explosion of interest in data science over the last decade, statistics has moved to the mainstream from the margins of the late high-school and early undergraduate mathematical curriculum. Regrettably, the impetus for this rise in status is not reflected in the content and pedagogy of introductory statistics. Statistics, as it too often is taught, focuses on the theoretical challenges of working with tiny data using methods from around 1910, covers only arithmetic summaries such as the mean and proportion, and omits entirely techniques for dealing with confounding and covariates. This presentation will be about the development of a pedagogy that puts data in the center, and the tools that are already available (through StatPREP.org (http://statprep.org/) among others) to help you engage students with data -- real, modern data with multiple variables -- and properly serve contemporary uses of data.

Danny Kaplan is the Dewitt Wallace Professor of applied mathematics, statistics, and computer science at Macalester College in St. Paul, Minnesota. He has authored textbooks in computational science, statistical modeling, data science, and even nonlinear dynamics. In 2017, he was the CAUSE award for lifetime achievement for his contributions to statistics education. He is on the leadership team for StatPREP.org, an initiative of the MAA, the ASA, and AMATYC funded by the US National Science Foundation (grant DUE-1626337). Carol Howald is Associate Professor and Co-Chair, Mathematics at Howard Community College and a hub leader for the StatPREP project.

No Remote Access will be available for this event. We plan, however, to make a videotape and post a link to it on http://washstat.org/presentations/. If you have the equipment and expertise and are willing to videotape the seminar, please let Carol Joyce Blumberg know. We will also post at the above link a copy of the slides & handouts within a few weeks after the talk.

POC (Point of Contact) email: Carol Joyce Blumberg, cblumberg@gmail.com