Session Type: Themed Contributed Paper Session
Session Title: Data Across the Curriculum
Session Description: As the data deluge continues, undergraduate mathematics students must prepare for careers that inevitably involve data. The Guidelines for Assessment and Instruction in Statistics Education (GAISE, 2016) discuss the importance of integrating real data into introductory statistics courses, but less attention has been given to mathematical probability/statistics courses and the mathematics major curriculum as a whole. This session invites presentations that discuss effective ways to integrate data and/or statistics into the undergraduate mathematics major curriculum. Presentations may include, for example, discussions of data and programming integrated into a calculus course, a linear algebra module highlighting connections to statistics and data analysis, or revisions of probability and statistics courses for mathematics majors to highlight authentic uses of data. Presentations might also include discussions of integrating statistical software into these courses. Co-sponsored by the SIGMAA on Statistics Education and the Committee on the Undergraduate Program in Mathematics.

Detailed Session Description:

As the data deluge continues, undergraduate mathematics students must prepare for careers that inevitably involve data. The Guidelines for Assessment and Instruction in Statistics Education (GAISE, 2016) discuss the importance of integrating real data into introductory statistics courses, but less attention has been given to mathematical probability/statistics courses and the mathematics major curriculum as a whole. This session invites presentations that discuss effective ways to integrate data and/or statistics into the undergraduate mathematics major curriculum. Presentations may include, for example, discussions of data and programming integrated into a calculus course, a linear algebra module highlighting connections to statistics and data analysis, or revisions of probability and statistics courses for mathematics majors to highlight authentic uses of data. Presentations might also include discussions of integrating statistical software into these courses. Co-sponsored by the SIGMAA on Statistics Education and the Committee on the Undergraduate Program in Mathematics.

Previously Presented: N/A

Sponsored Session: SIGMAA on Statistics Education

Additional AV needs: standard

Scheduling Constraints: can't conflict with other SIGMAA Stat Ed, RUME, or Web SIGMAA sessions

Organizer
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