

1106-M1-2618      **Rachel M Chaphalkar\*** (chaphalr@uww.edu), 2214 Laurentide Hall, 260 Carter Mall,  
Whitewater, WI 53190. *Introductory Statistics Students' Development of Reasoning about  
Variability*. Preliminary report.

Variability one of the key concepts in statistics, however in introductory statistics courses, students often struggle with understanding the concept of variability in graphs such as histograms (Cooper & Shore, 2008; delMas, Garfield, Ooms, & Chance, 2007; Turegun & Reeder, 2011). The purpose of this study is to understand how students' responses and reasoning about variability in histograms change during an introductory statistics course. Data were collected through a survey taken by 64 students at the beginning, middle, and end of an introductory course. Student responses to both multiple choice questions and short answer questions will be discussed. (Received September 16, 2014)