



**Thursday, October 17, 2019**  
**4:30–5:20 pm / SAS 2102**

# **Extreme Events in Chaos**

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Chaos refers to seemingly random and unpredictable dynamics of a system that evolves in time. Certain chaotic systems exhibit an additional level of complexity: intermittent extreme events that are noticeably distinct from the usual chaotic dynamics. These extreme events include ocean rogue waves, extreme weather patterns, and epileptic seizure. I will discuss several examples of these extreme events, known mechanisms that cause them, and recent advances towards their prediction. This talk will assume no background and will be accessible to all undergraduates.

**NCSU Society for Undergraduate Mathematics**

## **SUM Series**

**Mathematics and pizza!**