

# MSCS MESS

Department of Mathematics, Statistics, and Computer Science  
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## Math Talks Next Week

The MSCS department is in the process of hiring a tenure-track mathematics professor! The final two candidates will be giving virtual colloquia and research seminars next week. Read on for details on events next **Monday and Tuesday**, and keep your eyes peeled around RNS and RMS next week (and watch your email) for posters with details on the **Wednesday and Thursday** events!

### Monday's Colloquium

Title: Is Anonymous Data  
Really Anonymous?  
Speaker: Eric Hanson  
Date: **Monday, February 14**  
Time: 3:30pm  
Location: **This Zoom link**

**About the talk:** When an organization releases data to the public, they often promise privacy for the individuals represented in the data. Two common ways of doing this are by redacting sensitive data (for example, names and addresses) or by releasing only aggregate statistics. It has

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been shown, however, that these practices might not be enough. In this talk, we will introduce a few different mathematical definitions of privacy, as well as tools for ensuring data releases do not violate these definitions.

### Tuesday's Seminar

Title: Just Dots and Arrows  
(And Some Data)  
Speaker: Eric Hanson  
Date: **Tuesday, February 15**  
Time: 3:30pm  
Location: **This Zoom link**

**About the talk:** At its surface, a “representation of a quiver” is just a collection of vector spaces and linear maps. Yet, these simple structures have the ability to form connections between seemingly disparate mathematical ideas. In this talk, we focus on two such connections. First, we will see how quiver representations can help us understand the hidden geometric structure of a dataset. We will then examine the interplay between representations of quivers and certain combinatorial objects associated with permutations.

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