

*The Math & CS Dept. presents*

## A Study of Similarity in Brain Data

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*M.S. Thesis*

*Digital Forensics and Cybersecurity Program*

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Date: Tuesday, Dec. 19, 2017

Time: 1:45 – 2:45 pm

Math & CS Dept. Conference Room, 6.63.37

### Abstract

In the area of computer science, past research has found that the concept of self-similarity is present in local and Internet-based network traffic. This study considers the possibility that data traveling through the neuronal network in the human brain is also self-similar. By analyzing publicly available raw EEG data and estimating its Hurst parameter, we find indications that brain data traffic may in fact be self-similar.

### Short Bio

Jennifer received a B.A. in Psychology from New York University. At John Jay College she completed undergraduate coursework in the Mathematics and Computer Science department before joining the Digital Forensics and Cybersecurity Masters degree program.