

# TEMPLE

# MATH CLUB

**Of Friends and Politicians: An Invitation to (Spectral) Graph Theory - Nizar Bou Ezz**

## WHEN

**April 18 2024**  
**5-6 PM**

## WHERE

**Wachman Hall 617**

The friendship theorem states that if in a group of people each pair shares exactly one mutual friend, then there is always a person (the politician) who is everybody's friend. While the theorem's statement may seem straightforward, its (classical) proof requires a deep understanding of the adjacency matrix of the friendship graph. In this talk we will see how "abstract" notions in linear algebra (that you may have encountered in your classes) are used to study real-world social dynamics.

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