Department of Mathematics and Statistics
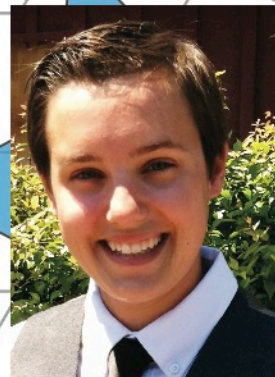## COLLOQUIUM
Brinkmann Prize Lecture

Applications of Group Theory to Public Key Cryptography

Chloe Stevens '13
Google Inc

Pacemakers transmitting heart rate data, paying bills with smart phones, and cloud storage of our personal information are just several examples of the growing and pervasive need for secure means of digital communication. This presentation gives a broad overview of cryptography, approaching these problems using basic group theory. We will examine several group theory protocols, give an overview of major encryption methods used today, and look at where the field might be heading next.

TUESDAY, NOVEMBER 12   SCIENCE CENTER 199

Refreshments 4:15

Talk 4:30

DEPARTMENT OF MATHEMATICS AND STATISTICS • SWARTHMORE COLLEGE