# 1  Potential Presentation Topics

1. Knot theory

2. The Borsuk Ulam Theorem and applications (cake cutting, necklace splitting, etc)

3. Category theory

4. The Poincare Conjecture

5. Any topic in Munkres beyond chapter 4

6. Ultrafilters

7. Morse theory

8. Euler characteristics

9. Topological groups

The following topics have been (**tentatively**) claimed. Note that for many of these it is quite possible for multiple people to give presentations on different aspects of the topic.

1. Topological data analysis (Jon)

2. Algebraic topology (Mikhail)

3. Banach spaces and Hilbert spaces (Nilay)

4. Differential topology (Larry)

5. Munkres Chapter 5: Tychonoff's Theorem and Stone-Cech (Buzz)

6. Manifolds and classification of surfaces (Bernard)

7. Fibrations (Chai)