**Chatroom Safety**

Detecting pedophiles in chatrooms

**Motivation**

In online chatrooms a person can take any identity he/she wants. There is no check on the correctness of age and gender in the profile of a user.

Child predators might change gender and age information with the goal of getting in contact with young children for malicious purposes.

In this project we want to create a safer online environment by developing tools for automatic detection of pedophiles in chatrooms.

**Research Questions**

- Can the characteristics of a user be determined based on his or her behaviour in a chatroom
  - Age / gender correctness with profile
- Can we detect the topic of a conversation in a chatroom
  - Sexual nature of the conversation
- Can we detect cyber-grooming in a chat conversation
  - Detecting harmful sequence in the conversation
- How can we combine the results of the above RQ to find pedophiles in a chatroom
  - Online Safety Monitoring

**Keystroke Dynamics**

- Determining gender and age based on how a person types on a keyboard
  - Duration
  - Latency

**Stylometry**

- Stylometry is based on the assumption that each individual has a unique writing style
- Author profiling of age, gender, and emotional state