**Predictive Patterns of Sex Trafficking Online –** *Jeremy*

This paper discussed the rise of sex trafficking on the internet and attempted to track movements of similar posts involving sex trafficking across the country over time. The researcher documented the history of sex ads and how they developed over time first on Craigslist.com to the now defunct site Backpage.com which was dedicated solely to sexual advertisements. With data scraped from Backpage.com they highlighted specific trends in the data regarding “Potential underage trafficking”, “Shared management situations”, and examples of “Potential Movement”. Each of these subcategories where highlighted specific examples and contexts to why the ads belong to specific subtopics. The contexts provided are useful sources when looking to scrape from twitter to identify sex trafficking locally and across state lines.

**Bayesian Locality Sensitive Hashing for Fast Similarity Search** – Jeremy

Locality-sensitive hashing has been a popular approach for object similarity detection however most uses of the algorithm is for only efficient indexing of objects. The researchers proposed a Bayesian approach to locality-sensitive hashing speeding up similarity estimation by two to twenty times faster. They also provided an analysis of their algorithm compared to other similarity algorithms. LSH as a whole proved viable for large sets of text data. Taking this approach to object indexing would greatly speed up the process especially when it comes to the data gathered from twitter.