

# Senior Research Project Work

## Project Title

Shooting Through the Text: Uncovering Sentiments in Congressional Gun Legislation

## Project Description

Have you ever wondered about the power of words in shaping public opinion on contentious issues like gun control? Perhaps you hadn't considered their impact at all. My project delves into the emotional and rhetorical dynamics of U.S. Congressional bills on gun issues, spanning from the 107th to the 117th sessions (2001-2023). We aim to strip back the layers of legislative language, uncovering how the debate on gun control and rights is framed and its potential sway over societal attitudes. At the ASU Data Mining and Reinforcement Learning Lab under the expert guidance of Professor Hua Wei, I work on projects that focus on sim-to-real transfer and human-AI collaboration, specifically in optimizing traffic signal control through advanced reinforcement learning techniques. This experience sharpens my ability to navigate complex data and apply machine learning models, skills I use to dissect and analyze the sentiment of legislative texts in my project on Congressional gun legislation. As we dissect the emotional tones and persuasive strategies within these texts, we're doing more than scrutinizing laws; we're revealing the narratives that fuel national discourse and mold public perception. The ultimate goal? To offer a lens through which we can better understand the polarized landscape of gun legislation, providing insights that could reshape how policies are communicated and perceived. Join us in this exploration of linguistic power, where every word in a bill carries the weight of conviction and the potential to shift the tides of public opinion.