

Sentiment Analysis of tweets containing the
word “Muslim” through RoBERTa for each
month in the years 2020, 2021, 2022

April 17, 2023

| month | negative | neutral | positive |
|-------|----------|----------|----------|
| 1 | 0.421248 | 0.425083 | 0.120627 |
| 2 | 0.580681 | 0.332824 | 0.086494 |
| 3 | 0.326529 | 0.438839 | 0.234632 |
| 4 | 0.391895 | 0.421237 | 0.186868 |
| 5 | 0.370779 | 0.425848 | 0.203372 |
| 6 | 0.353456 | 0.484369 | 0.162175 |
| 7 | 0.357902 | 0.479485 | 0.162614 |
| 8 | 0.447177 | 0.43017 | 0.122654 |
| 9 | 0.439221 | 0.446212 | 0.114567 |
| 10 | 0.519229 | 0.377009 | 0.103762 |
| 11 | 0.392998 | 0.479574 | 0.127428 |
| 12 | 0.332375 | 0.458122 | 0.209503 |

Table MUSLIM.2020: RoBERTa sentiment score averages for “Muslim” in 2020

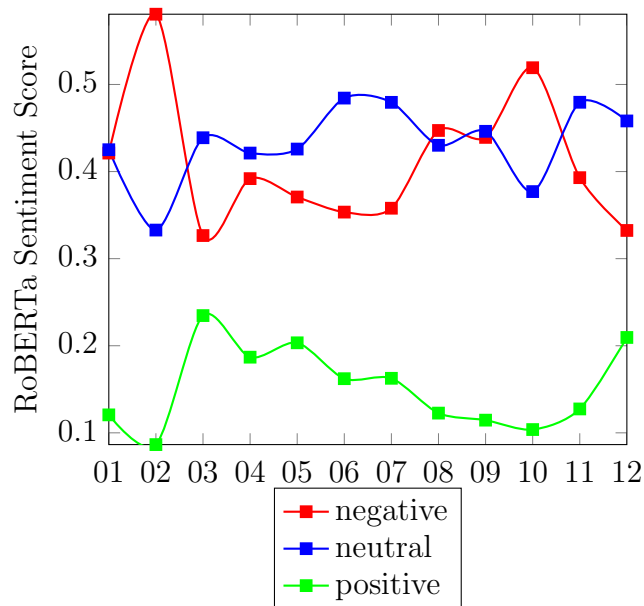


Figure MUSLIM.2020: the average RoBERTa sentiment scores per month in 2020

| month | negative | neutral | positive |
|-------|----------|----------|----------|
| 1 | 0.344671 | 0.473265 | 0.182064 |
| 2 | 0.340585 | 0.471099 | 0.188316 |
| 3 | 0.381644 | 0.481382 | 0.136973 |
| 4 | 0.312772 | 0.455957 | 0.231272 |
| 5 | 0.418742 | 0.428006 | 0.153252 |
| 6 | 0.367182 | 0.468333 | 0.164485 |
| 7 | 0.319717 | 0.52875 | 0.151532 |
| 8 | 0.33182 | 0.493266 | 0.174914 |
| 9 | 0.34517 | 0.513555 | 0.141275 |
| 10 | 0.377238 | 0.477683 | 0.145079 |
| 11 | 0.295206 | 0.544192 | 0.160602 |
| 12 | 0.371647 | 0.462094 | 0.166259 |

Table MUSLIM.2021: RoBERTa sentiment score averages for “Muslim” in 2021

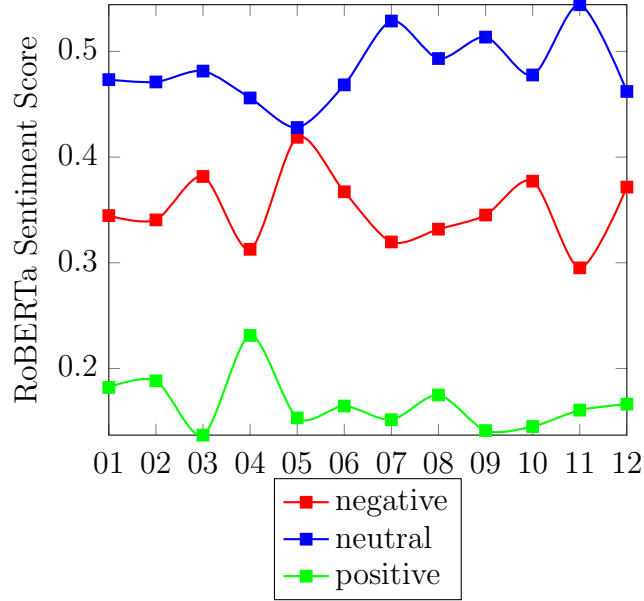


Figure MUSLIM.2021: the average RoBERTa sentiment scores per month in 2021

| month | negative | neutral | positive |
|-------|----------|----------|----------|
| 1 | 0.366749 | 0.466075 | 0.167176 |
| 2 | 0.452567 | 0.426806 | 0.120627 |
| 3 | 0.402591 | 0.449105 | 0.148303 |
| 4 | 0.404292 | 0.438839 | 0.148621 |
| 5 | 0.353037 | 0.476599 | 0.170365 |
| 6 | 0.412144 | 0.440486 | 0.14737 |
| 7 | 0.321993 | 0.513559 | 0.164449 |
| 8 | 0.317426 | 0.517197 | 0.165377 |
| 9 | 0.359861 | 0.490928 | 0.149211 |
| 10 | 0.322307 | 0.524009 | 0.153683 |
| 11 | 0.26513 | 0.586916 | 0.147953 |
| 12 | 0.317922 | 0.526483 | 0.155595 |

Table MUSLIM.2022: RoBERTa sentiment score averages for “Muslim” in 2022

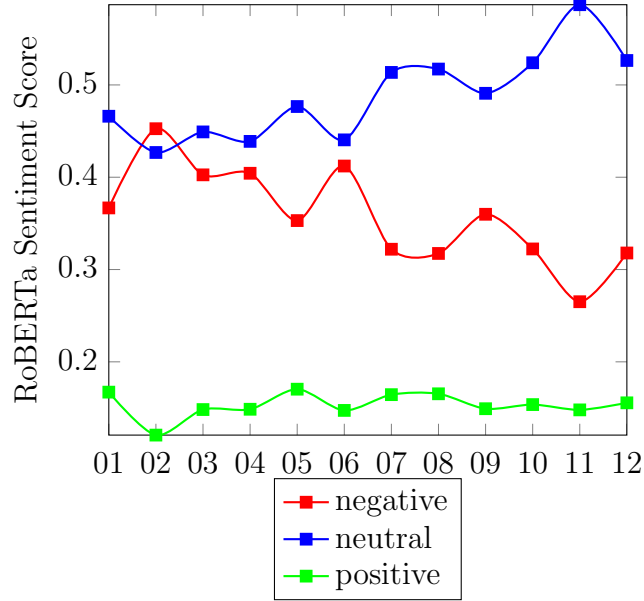


Figure MUSLIM.2022: the average RoBERTa sentiment scores per month in 2022

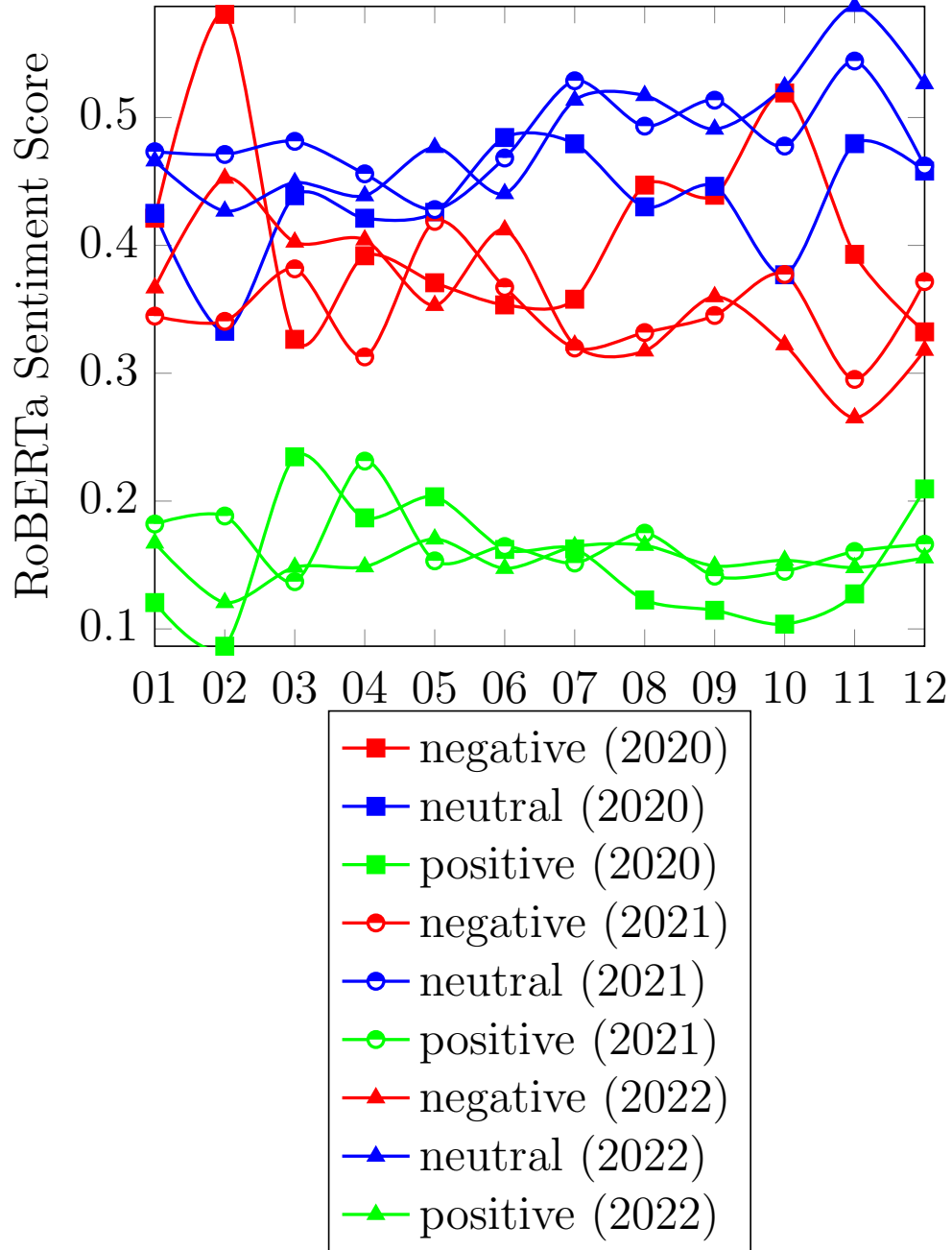


Figure MUSLIM.*: average RoBERTa sentiment scores 2020, 2021, 2022

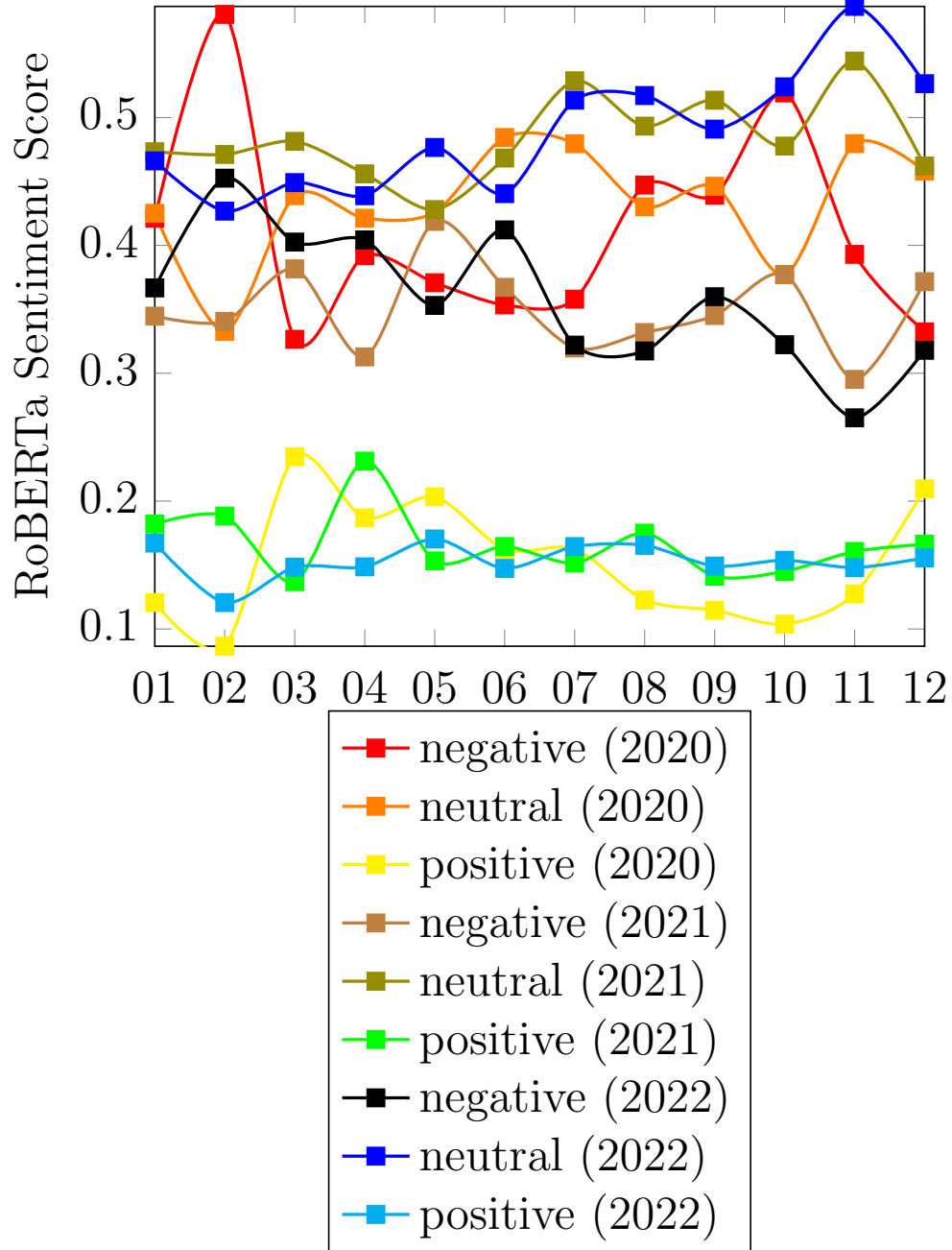


Figure MUSLIM.*: average RoBERTa sentiment scores 2020, 2021, 2022