



(Joe Klamar, AFP, Getty Images)<sup>1</sup>

# Controversial Voting Process for the GRAMMYs Awards

02.137DH: Introduction to Digital Humanities

Cornelia Ho Xin Ning (1004678)

Samuel Sim Wei Xuan (1004657)

Tan Yan Siew (1004665)

<sup>&</sup>lt;sup>1</sup> https://www.grammy.com/grammys/news/doesn%E2%80%99t-feel-real-2021-grammy-nominees-celebrate-social-media

## **Table of Contents**

Introduction	1
Background	1
Research Questions	
Hypothesis	2
Methodology	3
Main Results and Analysis	5
Assumptions and Limitations	8
Data Collection	8
Research Questions	8
Conclusion	9
Bibliography	
Appendix	11
Annex A	
Annex B	12
Annex C	

## Introduction

"The Weeknd Responds to 2021 Grammys Snub: 'The Grammys Remain Corrupt'" - Rolling Stones. This was only one of the many headlines written about the 63rd Annual GRAMMYs' nomination snub of Canadian singer-songwriter, the Weeknd. The Weeknd's album, After Hours, and song, Blinding Lights, received no nominations at the 2021 GRAMMYs, despite its huge commercial success with 1.8 billion and 882 million streams respectively (Vozick-Levinson, 2020). This resurfaced the issue of corruption within the GRAMMYs voting system, which we will take a closer look at in this paper.

## **Background**

The voting process of the GRAMMYs has always been one that is shrouded in mystery. With questions targeted towards the transparency regarding the criteria of how nominees and winners are chosen. This lack of transparency has caused the GRAMMYs to be the centre of controversy in recent years. Just last year, the former CEO of the GRAMMYs, Deborah Dugan, was fired just a few weeks before the 62nd annual award show. According to the Rolling Stones, Dugan mentioned the reason for her dismissal was due to her raising the issue of the undemocratic voting system of the private review committee to the organisation's board. This private review committee is a group of members, whose identities remain undisclosed, that review the 20 nominees chosen by the voting members and decide on the final eight nominees for each category (Hissong & Wang, 2020). The strict eligibility criteria do provide voting members with a certain level of credibility (McKinney, 2016). In the same vein, it is this private group of members that raised the question of whether the GRAMMYs are biased in deciding its winners and nominees. The GRAMMYs, however, claimed that the opaqueness they adopted in the

voting process helps to prevent fraud. Nevertheless, many others, including Dugan, also claimed that this opaqueness precisely is what allows the process to be corrupted - due to biases stemming from personal or business relationships (Hissong & Wang, 2020).

## **Research Questions**

Our group aims to find out whether the GRAMMYs consider audio features and popularity of the tracks when choosing its winners and nominees. Secondly, our group also wants to give insights into possible racial or gender discrimination of the artists.

## **Hypothesis**

At the GRAMMYs, "Song of the Year is awarded to the songwriter who composed the lyrics and/or the melodies to the song based on a track of an album. Whereas, Record of the Year is awarded to the performing artist, the producers, the sound engineers, the master engineer, and the sound mixer based on a track of an album" (McKinney & Trolio, 2020). The difference between them is that Song of the Year focuses on the composition of a song while Record of the Year involves the creation of the audio features of a song. The nomination for the GRAMMYs must also fulfil the criteria of being commercially released and sold in the United States (McKinney, 2016). For Spotify however, the most streamed songs globally are entirely based on streaming counts from all regions.

For our first research question, we will be performing an analysis based on the Record of the Year instead of the Song of the Year. We feel that the production and audio features of a song are the main deciding factor for a nomination at the GRAMMYs and also to be a top streaming song on Spotify. Thus, we want to see whether the audio features and popularity of the songs are

indeed factored into the selection of the GRAMMYs song nominations, using the audio features of the top streaming songs from Spotify as a basis for comparison.

For our second research question, we aim to shed light on possible racial and gender discrimination towards the nominated artists. We will instead be comparing the artists from the GRAMMYs Album of the Year to the artists from the globally most-streamed Albums of Spotify. We believe that the Album describes an artist better compared to a single track.

## Methodology

The advent of inexpensive streaming services meant that many people have been switching towards using music streaming platforms. Among the list of music streaming services, in 2019 Spotify topped the list as the leading streaming service, crippling competitors such as Apple Music which fell behind by more than half the subscriber counts of Spotify (Armstrong, 2020). Therefore, we chose Spotify as our subject of comparison. Furthermore, their open-sourced web-API developer allows us to easily tap into their analysis of tracks.

First, we compiled a list of song nominees for the GRAMMYs Award Record of the Year, and the Spotify top streamed songs globally (Annex A), from a list of sources found in Annex B. Since data from only a single year would provide too small a dataset to study and the fact that the controversy was only recently, the list includes songs from 2016 to 2020. Secondly, using the Spotify Web API, we extracted the unique song IDs for every listed song. Moving on, for each track, we extracted 11 audio features of a song. The 11 features include danceability, energy, key, loudness, mode, speechiness, acousticness, instrumentalness, liveness, valence, and tempo. To visualise this high dimensionality data, a parallel coordinates plot is being used. Each line of the plot would correspond to a specific track while each column represents a feature of the song.

Then, we draw specific ranges for the values of each column that best captures the overall shape

of the plot. From there based on the number of GRAMMYs Songs and Spotify Songs captured

by the overall general shape, we can determine which platform has more outliers. This would

help provide insight into the possible differences between the song nominations for GRAMMYs

Record of the Year and the Spotify globally most streamed songs.

Secondly, we compiled a list of the artists who have been nominated for the Album of the Year

and the artists of the globally most-streamed Album of Spotify. Now, instead of a parallel

coordinate plot, an alluvial plot would be used. The columns of the plot would include

categorical features such as gender and race. For the categories of race, we followed the United

States Department of Education (USED) Guidance on Maintaining, Collecting, and Reporting

Race and Ethnicity Data (United States Department of Education, 2007), and for the gender, we

assumed biological sex. For the sake of simplicity, we excluded groups or bands nominees from

the analysis. For race, if an artist was a mix of several races, we took the one with a larger

percentage to classify them. However, since there was only one Latino-Asian and one African

American-Asian artist that had an equal weightage in both races, we chose to omit the Asian

category and go with the majority of the categories for simplicity sake. From the plot, we can

compare the distribution of both features among the artists from both platforms.

The code we used can be found in the following URL:

https://colab.research.google.com/drive/1G-

jyEnjmDRh3AcINXBMOd20hZUNAsHHF?usp=sharing#scrollTo=YcWRUOkaAPpE

4

## **Main Results and Analysis**

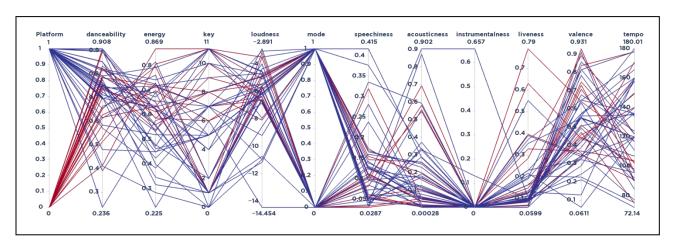


Figure 1a. Parallel coordinate plot for nominated songs from GRAMMYs and songs from Spotify

For all figures, the blue lines or shapes represent artists and songs from GRAMMYs while the red lines or shapes represent the artists and songs from Spotify. In *Figure 1a*, each line represents a track, and the columns represent the different audio features of each track. From this graph, we can spot the general shape of all tracks.

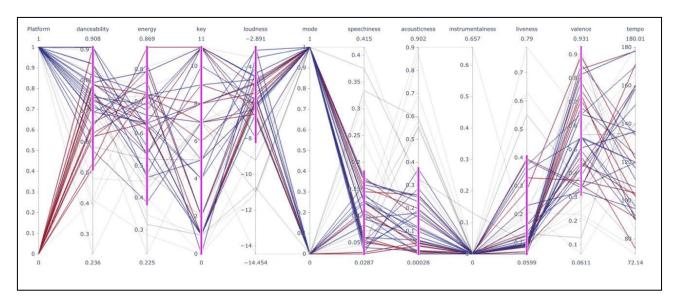


Figure 1b. General trend of the parallel coordinate plot in Figure 1a

Using this general shape, we plot specific ranges (pink bar) of each audio feature where most of the tracks lie within (*Figure 1b*). This presents a cleaner representation of the data. From this graph, to spot the outliers, we look at the 1st column, which represents which platform the track is. We can see that more of the songs from GRAMMYs are excluded, and most of Spotify songs are included. This means that audio features which correlate strongly with streaming count and popularity of songs based on Spotify are not a significant consideration in the nomination of songs for the GRAMMYs Song of the Year Award. Hence our initial hypothesis that song popularity and audio features play a significant role in the nomination of songs is false statistically. Humanistically speaking, this provides insight to the controversy that perhaps indeed biases in the nomination of songs do exist as audio features and popularity can be removed from the equation. Therefore, the selection of song nominees could be based on qualitative attributes instead of the quantitative ones we have studied here.

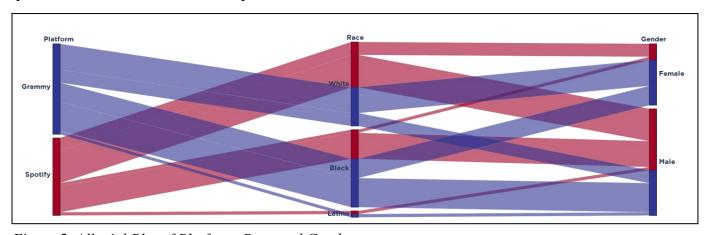


Figure 2. Alluvial Plot of Platform, Race and Gender

Next, we will look at *Figure 2*, to address our second research question and provide further insights into the issue of racial and gender biasness. Looking at the race column, we can see that the size of the White (White Americans) and Black (African American) categories are relatively the same. Even though the others are relatively small, this is probably due to the eligibility of

GRAMMYs nominations having to be distributed in the United States and the majority of globally acclaimed artists coming from the West. Moving on to the gender column, the same can be said about the Male and Female categories. However, we also can see that, for the artists who were nominated for the GRAMMYs compared to Spotify, a larger portion were female artists. This could suggest that the panels of judges for the GRAMMYs are pushing for female empowerment in the music industry. In a nutshell, statistically speaking, the data does not show any strong racial or gender discrimination. Therefore, in light of the controversy, perhaps the biasness could be directed towards certain artists instead of such a broad level of discrimination like race. After all, it is still suspicious as to why the number one most streamed song on Spotify in 2020, Blinding Lights by The Weeknd, was not nominated. Interestingly, he Weeknd was nominated in previous years for the Album of the Year Award multiple times. As aforementioned, the private review committee is claimed not to vote democratically as well, which raises many questions of their credibility. With our current findings, we can conclude that the GRAMMYs are not significantly biased towards any race or gender but are still unable to draw a definitive answer as to whether the GRAMMYs are biased in any other form.

## **Assumptions and Limitations**

#### **Data Collection**

One of the limitations we faced when collecting data was that the top streaming songs we compiled for each year from Spotify were for the number of streams within that year itself. Whereas the nominees for the GRAMMYs could only be chosen within the time frame set by the National Academy of Recording Arts and Sciences, which is somewhere between the end of the previous year and the end of the current year. Thus, even though our results did show a good correlation, it does not mean that it was entirely accurate. In the future, we will instead use data from top streaming songs on Spotify from the same period set like the one from the GRAMMYs. Another limitation we faced was that the data we used in comparison with the GRAMMYs was only obtained from the Spotify API database. Although, as previously mentioned, the Spotify database will serve as a reasonable estimate for comparison, it still does not give us the complete picture as there are many other streaming and non-streaming platforms where songs are being listened to. Therefore, in the future, we would expand our object of comparison to provide a more conclusive and accurate result.

#### **Research Questions**

For the first research question, we used Record of the Year as a comparison to the top streaming Spotify songs, as mentioned above. However, the reason for a top streaming Spotify song could not only be associated with the audio features of a song, but also the lyrics and composition of the song. This is why in the future; we would also compare the Song of the Year to the top streaming Spotify songs and see whether the results match or if there would be any other trends that surfaced.

For the second research question, we used albums as a basis of comparison to determine whether

the artists and winners were chosen based on racial and gender biases held by the Academy.

However, this might not be accurate as the success of an album cannot fully represent the

biasness towards and against individual artists and is only one factor out of many being

considered. For instance, a particular album might be popular due to the songs in the Album and

not the profile of the artist. Due to the limited categories found in the GRAMMYs, we can only

work with modifying the dataset used in the comparison. Hence, in the future we could also look

at the top streamed artists on Spotify for each year, to give us a better look at this issue.

**Conclusion** 

To put all this into context, even though our findings show no strong racial or gender

discrimination in the voting process, we were still unable to find a trend or criteria on how

exactly the GRAMMYs determine its winners and nominees. Thus, further research will need to

be done to conclude whether the GRAMMYs voting system is biased in any other form.

(Word Count: 2210)

9

## **Bibliography**

- Vozick-Levinson, S. (2020, November 24). *The Weeknd Responds to 2021 Grammys Snub: 'The Grammys Remain Corrupt'*. Rolling Stone. https://www.rollingstone.com/music/music-news/weeknd-grammys-snub-1094457/
- Hissong, S. & Wang, A. X. (2020, February 13). *Inside the 'Secret Committees' That Quietly Run the Grammy Awards*. Rolling Stone.

  https://www.rollingstone.com/pro/features/grammy-awards-secret-committees-945532/
- McKinney, K. (2016, February 15). *The Grammy voting process is completely ridiculous*. Vox. https://www.vox.com/2015/2/4/7976729/grammy-voting-process
- McKinney, K. & Trolio, J. (2020, January 26). *The difference between the Grammys' Song, Album, and Record of the Year categories, explained.*https://www.vox.com/2017/2/12/14593894/grammys-album-song-record-of-the-year-difference
- Armstrong, M. (2020, February 13). *The world's most popular music streaming services*. Statista. https://www.statista.com/chart/20826/music-streaming-services-with-most-subscribers-global-fipp/
- United States Department of Education (2007). *Guidance on Maintaining, Collecting, and Reporting Race and Ethnicity Data*. National Center for Education Statistics. https://nces.ed.gov/programs/handbook/data/pdf/Appendix\_A.pdf

# Appendix

#### Annex A

Year	GRAMMYs Record of the Year	Spotify's Top Streamed Songs of the Year
	"Black Parade" - Beyonce	"Blinding Light" - The Weeknd
	"Colors" - Black Pumas	"Dance Monkey" - Tones And I
	"Rockstar" - Da Baby Featuring Roddy Ricch	"The Box" - Roddy Ricch
2020	"Say So" - Doja Cat	"Roses - Imanbek Remix" - Imanbek and SAINt JHN
	"Everything I Wanted" - Billie Eilish	"Don't Start Now" - Dua Lipa
	"Don't Start Now" - Dua Lipa	
	"Circles" - Post Malone	
	"Savage" - Megan Thee Stallion Featuring Beyoncé	
	"Bad Guy" – Billie Eilish	"Señorita" – Camila Cabello, Shawn Mendes
	"Hey, Ma" - Bon Iver	"Bad Guy" – Billie Eilish
	"7 Rings" – Ariana Grande	"Sunflower" – Post Malone, Swae Lee
2019	"Hard Place" – H.E.R.	"7 Rings" – Ariana Grande
2019	"Talk" – Khalid	"Old Town Road – Remix" – Lil Nas X, Billy Ray Cyrus
	"Old Town Road" – Lil Nas X Featuring Billy Ray Cyrus	
	"Truth Hurts" – Lizzo	
	"Sunflower" – Post Malone & Swae Lee	
	"This Is America" – Childish Gambino	"God's Plan" – Drake
	"I Like It" – Cardi B, Bad Bunny & J Balvin	"SAD!" – XXXTENTACION
	"The Joke" – Brandi Carlile	"Rockstar" – Post Malone Featuring 21 Savage
2018	"God's Plan" – Drake	"Psycho" – Post Malone Featuring Ty Dolla \$ign
2018	"Shallow" – Lady Gaga & Bradley Cooper	"In My Feelings" – Drake
	"All the Stars" – Kendrick Lamar & SZA	
	"Rockstar" – Post Malone Featuring 21 Savage	
	"The Middle" – Zedd, Maren Morris and Grey	
	"24K Magic" – Bruno Mars	"Shape of You" - Ed Sheeran
	"Redbone" – Childish Gambino	"Despacito (Remix)" - Luis Fonsi, Daddy Yankee and Justin Bieber
2017	"Despacito" – Luis Fonsi and Daddy Yankee Featuring Justin Bieber	"Despacito" - Luis Fonsi Featuring Daddy Yankee
	"The Story of O.J." – Jay-Z	"Something Just Like This" - The Chainsmokers Featuring Coldplay
	"Humble" – Kendrick Lamar	"I'm the One" - DJ Khaled, Justin Bieber, Chance the Rapper, Quavo, Lil Wayne
2016	"Hello" – Adele	"One Dance" – Drake Featuring WizKid and Kyla
	"Formation" – Beyoncé	"I Took A Pill in Ibiza – Seeb Remix" – Mike Posner
	"7 Years" – Lukas Graham	"Don't Let Me Down" – The Chainsmokers Featuring Daya
	"Work" – Rihanna featuring Drake	"Work" – Rihanna Featuring Drake
	"Stressed Out" – Twenty One Pilots	"Cheap Thrills" – Sia

Table 1. List of GRAMMYs Record of the Year and Spotify's Top Streamed song of the Year

The year stated in the *Table 1* is the year being assessed by the GRAMMYs and not the year the GRAMMYs was hosted in. For instance, the year 2020 means that the music being assessed is from the year 2020 but the GRAMMYs will be held in 2021. Winners of Record of the Year for the GRAMMYs in 2017 to 2020 are bolded. Results for the 2021 GRAMMYs are not out as of the submission of this paper.

#### Annex B

#### List of Spotify's Top Streaming Songs and Albums

- 2020: <a href="https://newsroom.spotify.com/2020-12-01/the-trends-that-shaped-streaming-in-2020/">https://newsroom.spotify.com/2020-12-01/the-trends-that-shaped-streaming-in-2020/</a>
- 2019: <a href="https://newsroom.spotify.com/2019-12-03/the-top-songs-artists-playlists-and-podcasts-of-2019-and-the-last-decade/">https://newsroom.spotify.com/2019-12-03/the-top-songs-artists-playlists-and-podcasts-of-2019-and-the-last-decade/</a>
- 2018: <a href="https://newsroom.spotify.com/2018-12-04/the-top-songs-artists-playlists-and-podcasts-of-2018/">https://newsroom.spotify.com/2018-12-04/the-top-songs-artists-playlists-and-podcasts-of-2018/</a>
- 2017: <a href="https://variety.com/2017/digital/news/ed-sheeran-rihanna-lead-spotifys-most-streamed-artists-of-2017-list-1202630294/">https://variety.com/2017/digital/news/ed-sheeran-rihanna-lead-spotifys-most-streamed-artists-of-2017-list-1202630294/</a>
- 2016: <a href="https://www.harpersbazaar.com/culture/art-books-music/news/a19151/most-streamed-songs-spotify-2016/">https://www.harpersbazaar.com/culture/art-books-music/news/a19151/most-streamed-songs-spotify-2016/</a>

#### List of GRAMMYs' Record of the Year and Album of the Year

- 2020: https://www.grammy.com/grammys/awards/63rd-annual-grammy-awards-2020
- 2019: <a href="https://variety.com/2019/music/news/2020-grammys-nominations-list-1203410085/">https://variety.com/2019/music/news/2020-grammys-nominations-list-1203410085/</a>
- 2018: <a href="https://variety.com/2018/music/news/grammy-nominations-2019-complete-list-1203082934/">https://variety.com/2018/music/news/grammy-nominations-2019-complete-list-1203082934/</a>
- 2017: <a href="https://variety.com/2017/music/news/2018-grammy-nominations-list-nominees-1202623881/">https://variety.com/2017/music/news/2018-grammy-nominations-list-nominees-1202623881/</a>
- 2016: <a href="https://variety.com/2016/music/news/grammy-nominations-2017-full-list-nominees-grammys-1201934204/">https://variety.com/2016/music/news/grammy-nominations-2017-full-list-nominees-grammys-1201934204/</a>

### Annex C

Year	GRAMMYs Record of the Year	Artist	Spotify's Top Streamed Albums of the Year	Artist
	When We All Fall Asleep, Where Do We Go?	Billie Eilish	YHLQMDLG	Bad Bunny
	Cuz I Love You	Lizzo	After Hours	The Weeknd
	Father of the Bride	Vampire Weekend	Hollywood's Bleeding	Post Malone
2016	1, 1	Bon Iver	Fine Line	Harry Styles
2010	I Used to Know Her	H.E.R.	Future Nostalgia	Dua Lipa
	Norman Fucking Rockwell	Lana Del Rey		
	7	Lil Nas X		
	Thank U, Next	Ariana Grande		
	Golden Hour	Kacey Musgraves	When We All Fall Asleep, Where Do We Go?	Billie Eilish
	Beerbongs & Bentleys	Post Malone	Hollywood's Bleeding	Post Malone
	Black Panther: The Album, Music from and Inspired By	Kendrick Lamar	Thank U, Next	Ariana Grande
2019	By the Way, I Forgive You	Brandi Carlile	No.6 Collaborations Project	Ed Sheeran
2013	Dirty Computer	Janelle Monae	Shawn Mendes	Shawn Mendes
	H.E.R	H.E.R.		
	Invasion of Privacy	Cardi B		
	Scorpion	Drake		
	24K Magic	Bruno Mars	Scorpion	Drake
	Awaken My Love!'	Childish Gambino	Beerbongs & bentleys	Post Malone
2018	DAMN.	Kendrick Lamar	?	XXXTENTACION
	4:44	Jay-Z	Dua Lipa	Dua Lipa
	Melodrama	Lorder	÷	Ed Sheeran
	25	Adele	÷	Ed Sheeran
	Lemonade	Beyonce	More Life	Drake
2017	Purpose	Justin Bieber	DAMN.	Kendrick Lamar
	A Sailor's Guide to Earth	Sturgill Simpson	Starboy	The Weeknd
	Views	Drake	Stoney	Post Malone
2016	1989	Taylor Swift	Views	Drake
	Beauty Behind the Madness	The Weeknd	Purpose	Justin Bieber
	Sound & Color	Alabama Shakes	ANTI	Rihanna
	To Pimp a Butterfly	Kendrick Lamar	Blurryface	Twenty One Pilots
	Traveller	Chris Stapleton	Beauty Behind The Madness	The Weeknd

Table 2. List of GRAMMYs Album of the Year and Spotify's Top Streamed Album of the Year

The year stated in the *Table 2* is the year being assessed by the GRAMMYs and not the year the GRAMMYs was hosted in. For instance, the year 2020 means that the music being assessed is from the year 2020 but the GRAMMYs will be held in 2021. Winners of Album of the Year for the GRAMMYs in 2017 to 2020 are bolded. Results for the 2021 GRAMMYs are not out as of the submission of this paper.