

Potsdam AIVS. STUDENT COMPOSERS: The Power and Fee Composers Comp

This study investigates the impact of artificial intelligence on musical composition, focusing on prompts selected by a Composition Professor. Students will compose musical examples based on these prompts, which will then be processed using Suno.Al—a generative engine that can create full songs, including lyrics, from user input. With permission from participating composition majors, we will explore their personal experiences with AI tools, discussing how these technologies have influenced their creative process and whether they view AI as a helpful tool or a potential threat. Ultimately, this study aims to assess Al's current role in music composition and its potential to shape the future of music creation.

BACKSROUND

Music Composition is focused on fundamentals of combining music theory and the human ear to/create a musical work that's pleasing, interesting, or controversial. Humans have created music for as long as time and have only gotten better. Can A.I compare? Suno. AI was reléased on December 20th 2023. Suno Al is an artificial intelligence program which is designed to create original musical compositions. This can be done with both vocal and instrumentals. Suno. Ai describe themselves as a company that break barriers between you and the song you dream of making. No instrument needed, just imagination. From your mind to music.

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THE METHOD

For our project, we contacted 4 composition students here at the Crane School of Music. We gave them a prompt of "Create an original song of 30 seconds to one minute. We had it be vague so that they can share their own unique compositional voice. We then gave the same exact prompt to Suno. Al. From there we compared the songs based on originality, musicality, and structure.

Multiple composition students sent us their original works, and there was an immediate distinction between what Suno. All is capable of, and what humans are capable of. Off the bat, the composition students not only provided an audio file of their work, but sheet music. Suno, and any other artificial intelligence softwares are not advanced enough to do this. Suno. Al generated multiple songs for us which came with an album cover as well. Immediately, the AI defaults to a vocal song and does not provide an instrumental composition. The Al also generated songs which all had the exact same structure of verse, chorus, verse, bridge and chorus. We also found that when you put in instrumental/a specific instrument, it defaults to one specific genre such as jazz and doesn't elaborate. It also has difficulty making a instrumental solo (ex: Clarinet solo) in The composition students provided vastly unique compositions. They were all different in their own ways, never following the same exact structure or music theory. Each were individual.



Artificial Intelligence has already posed to be a threat to the future of composition, however has also displayed various tools that are used for drawing inspiration. With the development of technology, there are more innovative ways to simplify the process of composition; nonethéless, tho Al can exhibit the humane process to consider theory and emotional impact into the création of musical works. As a result, we believe that Al will co-exist alongside composers as both a toof and a threat.

Through our analysis of both the student compositions as well as the A.I pieces, we found that while Suno. A.I has music generation capabilities, it lacks compared to human composers in regards to complexity in song structure and variation of genres. The student composers far surpassed that of the Suno A.I pieces.