
Candidate Interest #1

Augmented Reality for Music Composition and Training

Music composers now mostly use digital software to write scores, synthesize orchestral music, and record their compositions. Most music technology will not change much from now on since it has advanced enough, but what could be useful is augmented reality style feedback on compositions. This might take the form of inputting recording stems and garnering some kind of feedback from an AI, or a study on the feasibility of enhancing a musician's cognitive capabilities with augmented style technology while avoiding interfering with the musician's process.

The questions for this project are within what does it mean cognitively for a specific combination of sounds to be attractive? What are patterns that are more suitable than others? OpenAI's jukebox sounds like how songs emerge from the human mind, but what about a similar method in evaluating them? Another idea is computer suggestions for compositions or assistance in composing akin to how one might try the AI drummer in GarageBand. Singers in training could use augmented reality to assist in finding their pitch and so on.