Annotated Bibliography

 Bell, Chip. "Algorithmic Music Composition Using Dynamic Markov Chains and Genetic Algorithms." *Journal of Computing Sciences in Colleges*, vol. 27, no. 2, Dec. 2011, pp. 99–107. *ACM Digital Library*, https://dl.acm.org/doi/10.5555/2038836.2038850. Accessed 3 Apr. 2023.

This journal article inspired the underlying idea of my entire project: promoting user collaboration in algorithmic composition by letting user ranking be the fitness metric. Unlike my project, this journal article does not use a constraint-based system. Instead it uses dynamic Markov chains for the generation of an initial population. This could serve as a neat basis of comparison between my system and their system.

2. Maurer, John A. *A Brief History of Algorithmic Composition*, Stanford, Mar. 1999, https://ccrma.stanford.edu/~blackrse/algorithm.html.

This website covers the history of algorithmic composition up until 1999. It discusses non-algorithmic techniques such as Mozart's "musical dice" and John Cage's "Music of Changes." Algorithmic compositional techniques are discussed, including genetic algorithms which are of relevance to my project alongside other algorithms. This website provides a nice, surface-level introduction to the study of algorithmic composition.

3. Edwards, Michael. "Algorithmic Composition: Computational Thinking in Music." *Communications of the ACM*, vol. 54, no. 7, 2011, pp. 58–67. *ACM Digital Library*, https://dl.acm.org/doi/pdf/10.1145/1965724.1965742. Accessed 3 Apr. 2023.

This is a journal article that covers more of the background of algorithmic composition, adding onto the previous website listed before this. There is overlap between the two sources, but the recency of this article presents the advantage of a more up-to-date background section in my paper.

 Anders, Torsten, and Eduardo R. Miranda. "Constraint Programming Systems for Modeling Music Theories and Composition." *ACM Computing Surveys*, vol. 43, no. 4, Oct. 2011, pp. 1–38. *ACM Digital Library*, https://doi.org/https://dl.acm.org/doi/pdf/10.1145/1978802.1978809. Accessed 3 Apr. 2023. This journal article covers the use-cases of constraint-based systems in algorithmic composition. This has more technical relation to my project, since I use a simplistic constraint-based system for the generation of the initial population of music samples.

 Burton, Anthony R., and Tanya Vladimirova. "Generation of musical sequences with genetic techniques." *Computer Music Journal*, vol. 23, no. 4, winter 1999, pp. 59+. *Gale Academic OneFile*, link.gale.com/apps/doc/A168282960/AONE?u=oswego&sid=bookmark-AONE&xid=e7 ebe010. Accessed 3 Apr. 2023.

This journal article provides some good information pertaining to using genetic algorithms to produce music. Like the last article, this provides a good technical breadth for my project, since my project deals with a genetic algorithm for creating music.

 Farooq, Humera, and Muhummad Tariq Siddique. "A Comparative Study on User Interfaces of Interactive Genetic Algorithm." *Procedia Computer Science*, vol. 32, 2014, pp. 45–52., https://doi.org/https://doi.org/10.1016/j.procs.2014.05.396.

This scholarly journal goes over "Interactive Genetic Algorithms," where the user has a role in determining the fitness of a given sample. Although this journal article deals with a dataset of images, I still think it has some relevance to my project due to its reliance on the user as a collaborator. Likewise, it has some interesting tidbits about how to handle problems confounded by subjectivity, which relates well to music preference.

 Fernández, Jose David, and Francisco Vico. "AI Methods in Algorithmic Composition: A Comprehensive Survey." *AI Methods in Algorithmic Composition: A Comprehensive Survey*, vol. 48, no. 1, 1 Oct. 2013, pp. 513–582. *ACM Digital Library*, https://dl.acm.org/doi/10.5555/2591248.2591260. Accessed 3 Apr. 2023.

This scholarly article provides more technical information on methods of algorithmic composition, including constraint-based systems and genetic algorithms. This could be use as an additional support source for the other algorithm-specific papers listed above.

8. Bishop, Kelly. "Is AI Music a Genuine Threat to Real Artists?" *VICE*, 16 Feb. 2023, https://www.vice.com/en/article/88qzpa/artificial-intelligence-music-industry-future.

This news article provides some insight on worries regarding artificial intelligence subverting humans in music. It provides some nice examples of algorithmic composition being used to support human musicians in their craft, as opposed to replacing them. In dealing with a research

project that deals with automated art, it is good to discuss the ethical concerns and potential consequences – good and bad – this technology can have on humanity.

 Yup , Kayla. "What AI Art Means for Society, According to Yale Experts." *Yale Daily News*, 25 Jan. 2023, https://yaledailynews.com/blog/2023/01/23/what-ai-art-means-for-society-according-to-y ale-experts/.

This news article goes over ongoing debates and controversy surrounding AI art. It has some nice discussions weighing pros and cons of AI art as well as debating if anything created by AI can be deemed "art." This news article, while focused on AI image generators, provides a nice selection of human reactions to AI art, which is relevant to my project since music is an art.

 Donahue, Bill. "Copyright Report Says AI-Assisted Works Can Be Protected – but Only If a Human Was Still in Charge." *Billboard*, 15 Mar. 2023, https://www.billboard.com/pro/songs-using-ai-eligible-copyright-registration/.

This article is probably the least relevant to my project, but still interesting anyways. AI music presents confusion over copyright. If someone uses an AI program to create music, who owns creative rights to that music? Is it legal for AI companies to train on copyrighted music sets?