

*A discussion of works created with the aid of AI
and AI research trends for music*

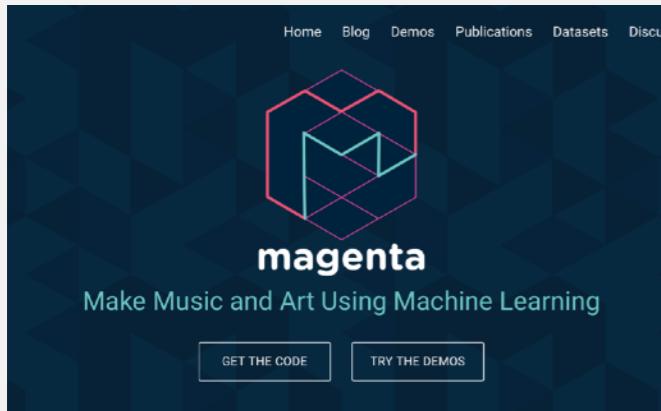
Shinae Kang (Tokyo University of the Arts)

TOOLS



<https://www.jukedeck.com>

Deep Learning



<https://magenta.tensorflow.org>

TensorFlow

<https://magenta.tensorflow.org/pianogenie>



<https://www.ampermusic.com>

Deep Learning

https://ledge.ai/ai_music_album/

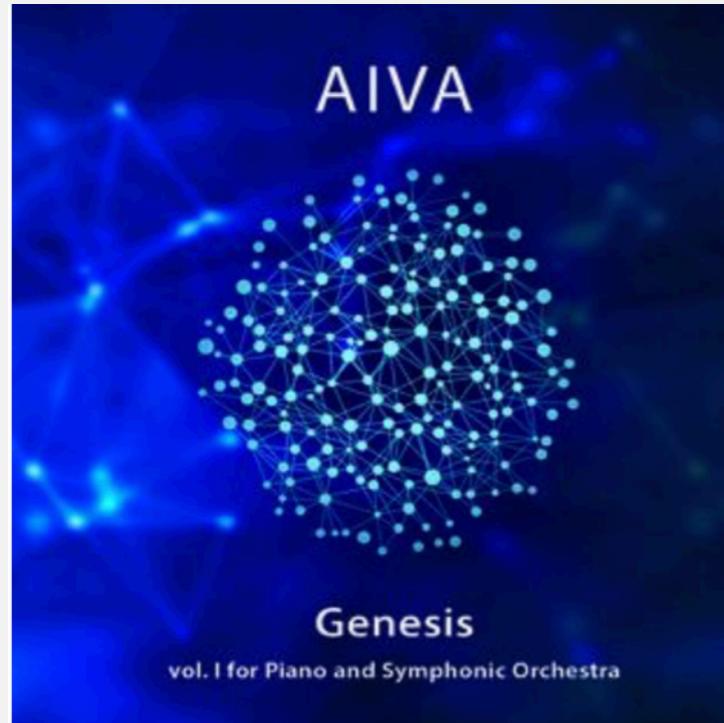
<https://www.youtube.com/watch?v=XUs6CznN8pw&feature=youtu.be>

TOOLS



**[https://www.youtube.com/results?
search_query=hum+on+app](https://www.youtube.com/results?search_query=hum+on+app)**

Deep Learning

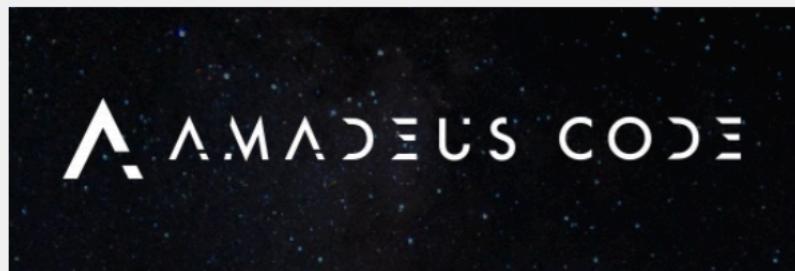


**[https://www.youtube.com/watch?
time_continue=154&v=SUNPrR4o5ZA](https://www.youtube.com/watch?time_continue=154&v=SUNPrR4o5ZA)**

Deep Learning

<http://www.kakaobrain.com/blog/28>

TOOLS



<https://amadeuscode.com/coming-soon>

A screenshot of the Orb Composer website. It features a dark header with the text "Orb Composer" and "Login / Register". Below this, it says "The first Artificial Intelligence for composers". There are two buttons: "ORDER NOW" and "LEARN MORE". To the right is a screenshot of the software interface, which shows a complex multi-track music editor with various tracks and controls.

<https://www.orb-composer.com/>



https://www.youtube.com/watch?v=cv4y_BRJokM



<http://web.casio.com/app/ja/composer/index.html>

The ORPHEUS website features a large title "ORPHEUS" in bold black letters, with "自動作曲システム" (Automatic Composition System) written below it in Japanese. To the right is a small illustration of a winged figure. Below the title is a URL: "http://www.orpheus-music.org/v3/index.php".

<http://www.orpheus-music.org/v3/index.php>

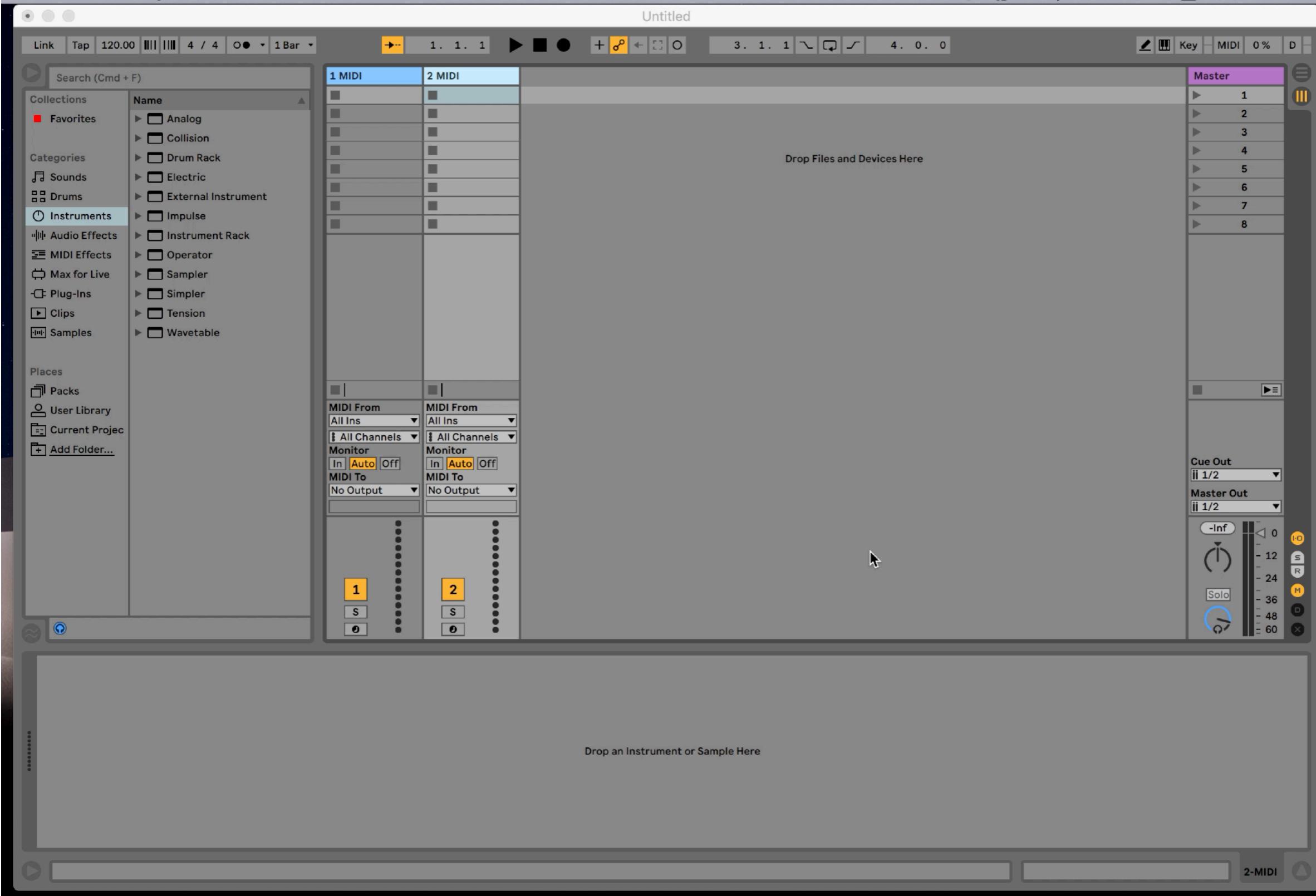


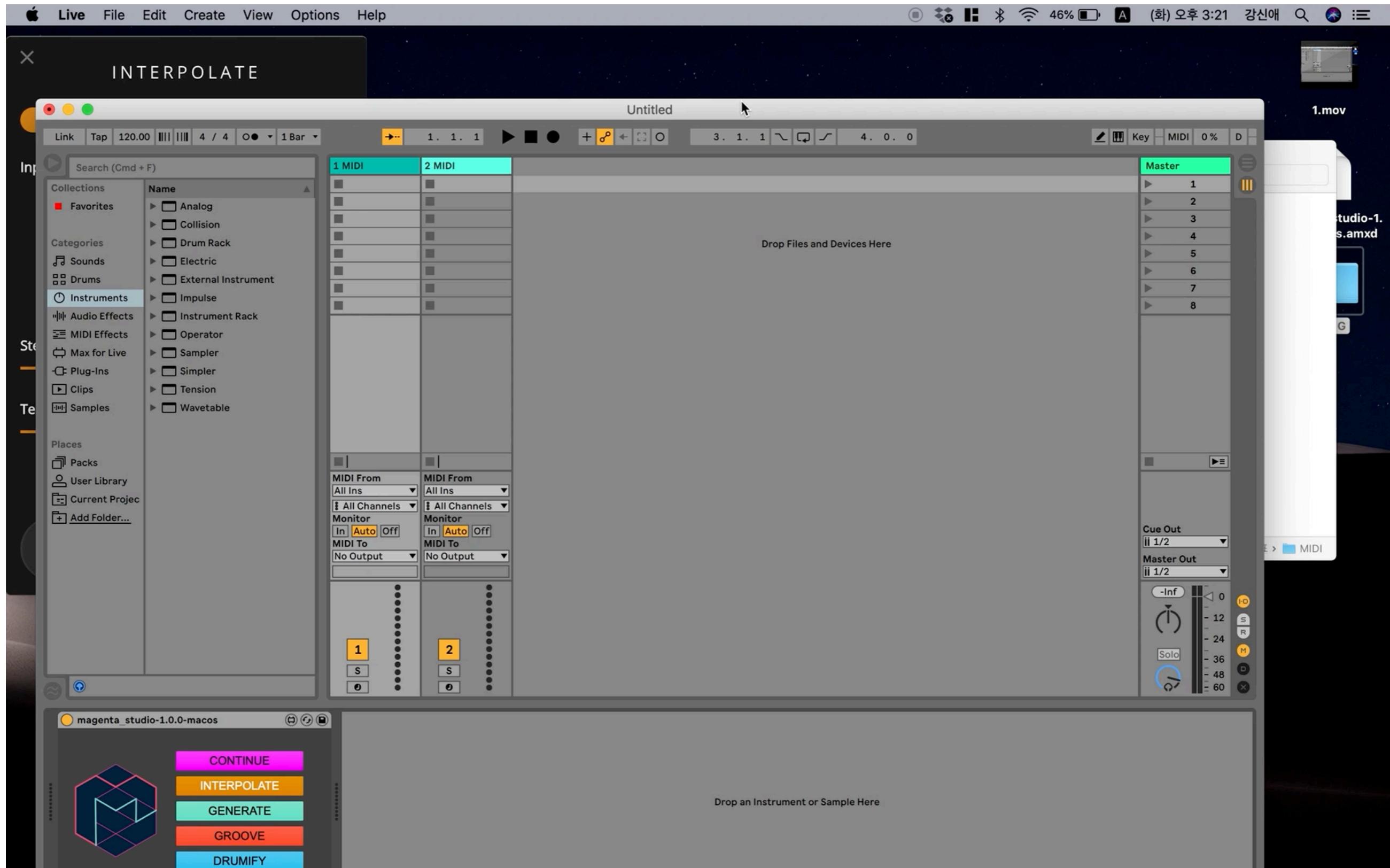
Humtap



<https://www.youtube.com/watch?v=9X4PkwdnWVg>







<https://magenta.tensorflow.org/studio/ableton-live/>

Rondo Alla Turca

Turkish March

W. A. Mozart

Allegretto

Musical score for the first system of Rondo Alla Turca. The score consists of two staves: treble and bass. The key signature is A major (no sharps or flats). The time signature starts at 2/4. The dynamics include a dynamic marking *p* (piano) in the first measure. The melody features eighth-note patterns with various grace notes and slurs. Measure 5 begins with a bassoon-like line consisting of eighth-note chords.

A digital interface for a music player. At the top, there is a toolbar with icons for file operations and settings. Below the toolbar, a search bar contains the text "1:4 [MOZART+MOZART]". To the right of the search bar are playback controls: a play button, volume sliders, and a tempo dial set to 100. Below these controls is a progress bar showing the current position in the piece. The main area of the interface displays the musical score for the second system, starting with a treble staff in A major, 4/4 time.

The top staff of the second system of the musical score. The key signature changes to E major (three sharps). The time signature is 4/4. The melody continues with eighth-note patterns, including a sixteenth-note figure in the fourth measure. The bass staff is also present, showing sustained notes.

The bottom staff of the second system of the musical score. The key signature remains E major (three sharps). The time signature is 4/4. The melody continues with eighth-note patterns, including a sixteenth-note figure in the fourth measure. The bass staff is also present, showing sustained notes.

Breath

(For Violin and Live Electronics)

KANG SHINAE 2019

$\text{J} = 60$

Violin Staff:

- Dynamic: **ff**
- Tempo: $\text{J} = 60$
- Musical elements: Slurs, dots, dashes, and a fermata.
- Performance instruction: **sfc**
- Dynamic: **mf**
- Technical instruction: (active gliss)

Live Electronics Staff:

- A series of vertical bars representing digital audio levels.

2

This page contains two blank staves for the violin and live electronics respectively.

TOOLS

Orb Composer

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Beethoven's unfinished tenth symphony to be completed by artificial intelligence

16 December 2019, 16:31 | Updated: 17 December 2019, 14:25



Beethoven's unfinished tenth symphony to be completed by artificial intelligence. Picture: Getty

By Maddy Shaw Roberts



Beethoven's unfinished symphony is set to be completed by artificial intelligence, in the run-up to celebrations around the 250th anniversary of the composer's birth.

A computer is set to complete **Beethoven's** unfinished tenth symphony, in the most ambitious project of its kind.

An AI Completes an Unfinished Composition 115 Years After Composer's Death

It's never too late to finish what you've started, even if AI does the job for you.

By [Suchi Rudra](#)

19 June 2019, 2:10pm [Share](#) [Tweet](#) [Snap](#)



IMAGE: [STEVE BUISSINNE/PIXABAY](#)

This November, the [Prague Philharmonic](#) will perform the third and final movement of "From the Future World," an AI-completed composition based on an unfinished piano piece by the famous composer Antonín Dvořák, 115 years after his death. [Emmanuel Villaume](#) will conduct.

The concert is the culmination of an experiment in AI and creativity that got its start last year when Richard Stiebitz and Filip Humpl, creative directors at the Prague office of global ad agency Wunderman, approached Luxembourg-based [AIVA Technologies](#), an AI-music startup.

Bringing the Unfinished Symphony to life



Huawei unveiled the unique version of Schubert's Symphony No. 8 with a live performance at the iconic Cadogan Hall in London on Monday 4th February.

More than 500 people travelled to London from all over Europe for the unique, one off performance. The 67 piece orchestra began proceedings by performing the two existing movements of Schubert's Symphony No 8 before the moment of truth, as they moved on to the new Huawei-completed third and fourth movements for the first time.

Download and listen to Huawei's finished version of Schubert's Symphony No. 8 - [MP3 \(90Mb\)](#) / [WAV \(800Mb\)](#)

<https://consumer.huawei.com/uk/campaign/unfinishedsymphony/>

https://www.vice.com/en_in/article/neakqm/an-ai-completes-an-unfinished-composition-115-years-after-composers-death

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