

## Faster proposed method for optimal speaker location determination

## **Executive summary**

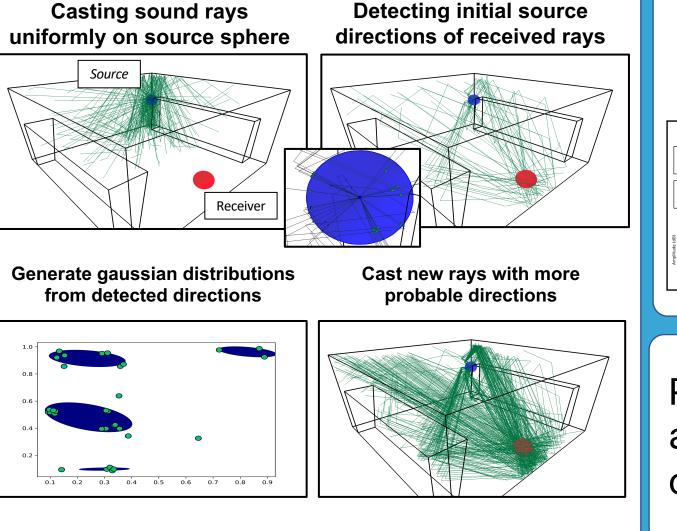
The objective is to identify the sound source location that results in the flattest frequency response at receiver locations, promoting a listening experience aligned with the artist's intention.

Acoustic ray tracing, which can be used as a method for determining frequency response, experiences slow performance due to missed rays at the receiver.

The proposed method improves performance by using importance sampling with gaussian distributions derived from a previous lowray count simulations.

However, inconsistent results have been observed, necessitating further research to determine feasibility of the method.

## New proposed method



Potential for **6x** speed improvement, though with unreliable similarity to existing method

