

# **Karaoke in Reverse for Piano Concertos**

## **Matthew DeJongh, Ph.D.**

**Research Presentation and Performance**  
**Friday, December 1, 2023, 10:00 AM to 10:45 AM**  
**Meiji Gakuin University Shirokane Campus**  
**Main Building Room 1253**

During my sabbatical last year in Liverpool, I fulfilled a life dream of playing a piano concerto. Instead of hiring an orchestra to accompany me, I was able to teach my computer to play the accompaniment. It's like Karaoke in reverse - the computer listens to my playing and matches the recording of the orchestra to my tempo. In this presentation I will describe the technologies that make this possible, and then perform the Andante movement of Wolfgang Amadeus Mozart's A major piano concerto (K. 414) accompanied by my computer.



Matthew DeJongh is Professor of Computer Science at Hope College in Holland, Michigan, USA. He is visiting Meiji Gakuin University September to December 2023.