

Robotic Musicianship

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Robotic musicianship is an emerging interdisciplinary field combining music, computer science performance studies, artificial intelligence (AI), and mechatronics. This presentation will describe projects exploring how findings from robotic musicianship can extend into general AI and the robotics industry. The first project, Emotional Musical Prosody, embeds musical language phrases into industrial robotics for improved trust and collaboration. The second project describes a system for an interactive rapping robot and the implications for expert human robot interaction.

Biodata

Richard Savery is a developer of artificial intelligence and robotics, using music and creativity as a medium to program better interactions, understandings and models. He is currently a Macquarie University Research Fellow, focused on developing a rapping and drumming interactive robot. He was recently awarded DECRA (2025-2027), focusing on robots and AI in long-term use and groups. His research has received \$3.8 million in funding and significant industry partnerships. His work has been featured in Scientific American, BBC Radio and Disney +. He completed a PhD in Music Technology (minor in Human Computer Interaction), at the Georgia Institute of Technology, graduating in 2021.