

Richard Savery

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Education

Ph.D. Music Technology (Minor in Human-Computer Interaction)

GEORGIA INSTITUTE OF TECHNOLOGY

2017-2021

- Dissertation: Machine Learning Driven Musical Approaches for Real-Time Human-Robot Interaction
- Fully funded with stipend through Graduate Research Assistantship

M.F.A Intergrated Composition, Improvisation and Technology

UNIVERSITY OF CALIFORNIA, IRVINE

2013-2015

- Masters Thesis: Algorithmic Improvisers
- Fully funded with stipend through Graduate Research/Teaching Assistantship

B.Mus (Performance)

SYDNEY CONSERVATORIUM OF MUSIC, UNIVERSITY OF SYDNEY

2008-2011

Grants & Awards

National Science Foundation - National Robotics Initiative

CREATING TRUST BETWEEN GROUPS OF HUMANS AND ROBOTS USING A NOVEL MUSIC DRIVEN ROBOTIC EMOTION GENERATOR

2019

- \$669,912.00 grant for Human Robot Interaction
- Co-author with advisor Gil Weinberg

Australia Council: Art Start Grant

EARLY CAREER GRANT

2013-2015

- \$10,000 for Development of Album, Website and Music Printing

- 2018 **Winner Moog Hackathon**, Georgia Tech
- 2017 **Best Indie Game Audio (Nominee): Orchestrator for Gunman Taco Truck**, Game Audio Network Guild
- 2017 **Best Music in a Casual/Social Game (Nominee): Orchestrator for Gunman Taco Truck**, Game Audio Network Guild
- 2015 **Best Indie Game Audio (Winner): Orchestrator for Gathering Sky**, Game Audio Network Guild
- 2015 **Best Interactive Score (Nominee): Orchestrator for Gathering Sky**, Game Audio Network Guild
- 2015 **Best Music in a Casual Game (Nominee): Orchestrator for Gathering Sky**, Game Audio Network Guild
- 2015 **Best Handheld Audio (Nominee): Orchestrator for Gathering Sky**, Game Audio Network Guild
- 2015 **Distinguished Service Award**, Game Audio Network Guild
- 2015 **Associated Graduate Students Research Grant**, University of California, Irvine
- 2015 **Claire Trevor School of the Arts Research Grant**, University of California, Irvine
- 2013 **Creative Young Stars Program**, Ryde City Council
- 2013 **Field Recording Competition Winner**, HISS and Roar
- 2007 **Pat Corrigan Recording Scholarship**, International Association of Jazz Education

Publications

BOOK CHAPTERS

Richard Savery, Lisa Zahray, Gil Weinberg, *Shimon Sings - Robotic Musicianship Finds its Voice*
Handbook of Artificial Intelligence and Music, Springer, 2020

Richard Savery, Lisa Zahray, Gil Weinberg, *A ConvNet for Ethical Robotic Musical Generation and Interaction*
Artificial Intelligence and Creative Music Practice, Routledge, 2021

PEER REVIEWED CONFERENCES AND JOURNALS

Richard Savery, Gil Weinberg, *A Survey of Robots and Emotion: Broad Trends and Models of Emotional Interaction*
29th IEEE International Conference on Robot Human Interactive Communication

Lisa Zahray, Richard Savery, Liana Syrkett, Gil Weinberg, *Robot Gesture Sonification to Enhance Awareness of Robot Status and Enjoyment of Interaction*
29th IEEE International Conference on Robot Human Interactive Communication, 2020

Richard Savery, Lisa Zahray, Gil Weinberg, *Shimon the Rapper: A Real-Time System for Human-Robot Interactive Rap Battles*
International Conference on Computational Creativity, ICCCC'20

Ning Yang, Richard Savery, Raghavasimhan Sankaranarayanan, Lisa Zahray, Gil Weinberg, *Mechatronics-Driven Musical Expressivity for Robotic Percussionists*
New Interfaces for Musical Expression, 2020

Richard Savery, Ryan Rose, Gil Weinberg, *Establishing Human-Robot Trust through Music-Driven Robotic Emotion Prosody and Gesture*
28th IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), Dehli, India, 2019

Richard Savery, Madhukesh Ayyagari, Keenan May, Bruce Walker, *Soccer Sonification: Enhancing Viewer Experience*
The 25th International Conference on Auditory Display, UK, ICAD 2019

Richard Savery, Benjamin Genchel, Jason Smith, Anthony Caulkins, Molly Jones, Anna Savery, *Learning from History: Recreating and Repurposing Sister Harriet Padberg's Computer Composed Canon and Free Fugue*
New Interfaces for Musical Expression, Porto Alegre, Brazil, 2019

Richard Savery, Ryan Rose, Gil Weinberg, *Finding Shimi's Voice: Fostering Human-Robot Communication With Music And a NVIDIA Jetson TX2*
17th Linux Audio Conference (LAC-19), CCRMA, Stanford University, USA, 2019

Richard Savery, Benjamin Genchel, Jason Smith, and Molly Jones, *Harriet Padberg: Computer-Composed Canon and Free-Fugue Renaissance* Society for Music Theory 42nd Annual Meeting, Ohio, USA, 2019

Richard Savery, Gil Weinberg, *Shimon the Robot Film Composer and DeepScore*
Computer Simulation of Musical Creativity, Dublin, Ireland, 2018

Richard Savery, *An interactive algorithmic music system for EDM*
Dancecult: Journal of Electronic Dance Music Culture 10 (1), 2018

INDUSTRY EVENTS

Richard Savery, *Deep Learning Applications for Video Game Music*
GameSoundCon, Los Angeles, USA, 2018

PRESENTATIONS AND ARTICLES

Santiago Guisasola, Richard Savery, *Listening in Improvisation*
Ethnomusicology Review 20, 2017

Richard Savery, *Interactive Computer Musicianship and Artificial Improvisers*
Eureka Music conference (UCSC), Santa Cruz, 2015

Teaching

QUALIFICATIONS

Associate Level Certificate: Foundations of Teaching and Learning

CENTER FOR THE INTEGRATION OF RESEARCH, TEACHING, AND LEARNING (CIRTL)

2018-2019

Tech to Teaching Certificate

GEORGIA TECH, CENTER FOR TEACHING AND LEARNING

2019-2020

- A multi-semester, preparing future faculty program that includes pedagogy training and practice

EXPERIENCE

Research Mentor and Instructor

VERTICALLY INTEGRATED PROJECTS

- Supervised 5-10 undergraduate students each semester
- Led undergraduates as software team,
- Outcomes for undergraduate students included published papers

2017-2021

Instructor of Record

GEORGIA INSTITUTE OF TECHNOLOGY

2020

- GT 1000: First Year Undergraduate Research Seminar

Teaching Assistant

UNIVERSITY OF CALIFORNIA, IRVINE AND GEORGIA INSTITUTE OF TECHNOLOGY

2013-2021

- Interactive Music: 32 Students Mixed Graduate and Undergraduate Class
- Music Theory Fundamentals 1: 20 students, led weekly lab sessions
- Music Theory Fundamentals 2: 20 students, led weekly lab sessions
- Music Theory Fundamentals 3: 20 students, led weekly lab sessions
- Music Appreciation: 2 semesters of an Online Summer Class with 200 Students
- Jazz History: General Education Class with 150 Students
- Jazz Theory: 15 Students, led weekly lab sessions