RichardSavery

contact

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links

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programming

Python (15 + years) C++ (5 + years) R (2 + years) MaxMSP (10 + years)

teaching

Certificate in Higher Education (2019)

frameworks

Tensorflow NLTK

software

Sketch Google Docs MS-Office Suite LaTex Logic Pro Ableton

Grants and Awards cont

- Associated Graduate Students Research Grant (2015)
- Claire Trevor School of the Arts Research Grant (2015)
- Creative Young Stars Program (2013)
- HISSandaROAR Field Recording Competition Winner (2013)
- Australia Council -Art Start Grant (2012,
- International Association of Jazz Education Pat Corrigan Recording Scholarship (2007)

About

I am researcher in human computer interaction and music technology, focused on improving how humans engage with artificial intelligence

Grants and Awards

2019 Creating Trust Between Groups of Humans and Robots Using a Novel Music Driven Robotic

Emotion Generator National Science Foundation, National Robotics Initiative 2.0

Lead author of \$700,000 grant to develop the role of non-linguistic expressions in

trust building and human-robot interaction

2018 **Moog Hackathon Winner** Georgia Institute of Technology

Implemented a model of distributed cognition through a musical interface

Education

2017 + **Ph.D** in Music Technology Georgia Institute of Technology

(minor in Human-Computer Interaction), researcher in the Robotic Musicianship Lab

2013–2016 MFA in Composition, Improvisation and Technology University of California, Irvine

Masters Thesis in Artificial Computer Musical Improvisers

2008–2011 **Bachelor of Music** Sydney Conservatorium of Music, University of Sydney

Extensive computer science and music class work

Experience

(2017 +) Lead Developer of Shimon the Marimba Playing Robot Georgia Institute of Technology

Highlights include a robot generated film score using computer vision, and a nomination for Best Jazz Performance at the Danish Grammy Awards. Current work involves development of lyrics and spoken word

(2013 - 2018) Software Developer and Pedagogy Creator Earsketch

Updated the curriculum for JavaScript and Python for school students. Developed a new curriculum for high school teachers to use Earsketch in the classroom

(2007 +) Professional Saxophone/Clarinet/Flute and Composer/Orchestrator

Highlights include awards for the Best Music for and Indie Game, and composition for and ad campaign featuring Roger Federer

Publications

Robotic Musicianship: Comparing a Deep Learning Lyric Generator through Software and Embedded Robotics chapter in Handbook of Artificial Intelligence and Music, Springer, 2020

Establishing Human-Robot Trust through Music-Driven Robotic Emotion Prosody and Gesture 28th IEEE International Conference on Robot & Human Interactive Communication (RO-MAN)

Soccer Sonification: Enhancing viewer experience International Conference on Auditory Display, 2019

Learning from History: Recreating and Repurposing Sister Harriet Padberg's Computer Composed Canon and Free Fugue New Interfaces for Musical Expression, 2019

Finding Shimi's Voice: Fostering Human-Robot Communication With Music And a NVIDIA Jetson TX2 Linux Audio Conference, 2019

An Interactive Algorithmic Music System for EDM Dancecult: Journal of Electronic Dance Music Culture 10 (1), 2018

Shimon the Robot Film Composer and DeepScore Computer Simulation of Musical Creativity, 2018