



NSW DIVISION TECHNICAL MEETING

Silicon Ears

Date: Tuesday, 16th April 2019

Venue: RM 101, Level 1, Ainsworth building (J17):
<https://www.learningenvironments.unsw.edu.au/spaces/ainsworth-building/k-j17-101-ainsworth-101>

Time:
6:00 pm for 6:30 pm start
Refreshments prior to talk

Speaker: Associate Professor Tara Hamilton from School of Engineering at Macquarie University
https://www.westernsydney.edu.au/marcs/our_team/adjunct_researchers/dr_tara_hamilton

RSVP: Tuesday, 9th April 2018 to Mattia Tabacchi by email
Mattia.Tabacchi@renzotonin.com.au

AAS members (and guest) are welcome to attend.



Guest speaker

Tara Julia Hamilton is an Associate Professor in the School of Engineering at Macquarie University. She has been engaged in hearing-related research for almost 20 years and has been working on neuromorphic research for over 15 years. She currently has funding from the Australian Research Council (ARC) to study neuromorphic auditory perception and an ARC Linkage Project which aims to use machine learning algorithms to develop individualised music. She is also working with researchers at Cochlear Ltd. to improve music perception for Cochlear implant users. Tara is passionate about developing technologies which improve people's lives.

Presentation abstract

For over 30 years neuromorphic (neurobiologically inspired) engineers have been developing models of the cochlea and auditory perception. In this presentation I'll discuss the progress that has been made, what we've learnt so far, the application to hearing technologies: cochlear implants, hearing aids, Siri, Google, Alexa, and so on, and the future directions of this approach.