

RESEARCH SKILLS

Experimental techniques

- fNIRS EEG TMS
- · Ultrasound tongue imaging
- Rehavioural
- Semi-structured interviews

Software

• PsychoPy • OpenPose • Praat • Adobe

Programming languages

• R • Python • HTML • MATLAB

Natural languages

Fluent English, German, French Intermediate Croatian, Finnish, Spanish

TEACHING ACTIVITIES

July 2019 - Dec 2020

Macquarie University

Departments of Cognitive Science & Linguistics

- Delusions and Disorders of the Mind and Brain
- Introductory Phonetics and Phonology
- Introduction to Psycholinguistics
- Phonological Analysis
- · Language as Evidence

COMMUNITY INVOLVEMENT

2022 | Camp Aspire

Workshop on measuring motor synchrony and for indigenous highschool students

2022 | LEAP UP University Experience Day

Introducing refugee highschool students to robotic reading companions and their research and intervention applications

2021 Widening Participation

Reading robot buddy activities with refugee highschool students

2019 | Innovate Hear at Venture Cafe

Moderation of panel discussion on 'hearable' devices for Macquarie University Hearing Strategy

AWARDS

2022 | ECR Travel Award to AS4SAN 2019 | Student Travel Award to CIAP

2019 | Graduate Research Funding

2018-2022 | IDEALAB PhD Fellowship

2016-2018 | Erasmus+ Mobility Grant

RECENT TRAINING

2022 | Deaf Awareness Training

2022 | Mental Health First Aid Training

2022 | Supervision Masterclass

2022 | Foundations of Supervision

2021 | Manawari Cultural Safety Training

RYSSA MOFFAT

POSTDOCTORAL RESEARCH FELLOW

EDUCATION

2018 - 2022

PhD in Cognitive Science

Joint degree from Macquarie University, Newcastle University, Universities of Groningen & Potsdam Thesis title: Recognition and cortical haemodynamics of vocal emotions – an fNIRS perspective Advisers: Prof. David McAlpine, Prof. Deniz Baskent, Dr. Lindsey van Yper, Dr. Robert Luke

2016 - 2018

M.Sc. in Clinical Linguistics

Joint degree from Universities of Eastern Finland, Groningen & Potsdam Thesis title: Coarticulation as a synchronic predictor of reading dysfluency Advisers: Prof. Martijn Wieling, Dr. Aude Noiray

2012 - 2016

HBA, Major in German Language and Culture, Minor in Linguistics

University of Ottawa

Exchange year at University of Bonn (Oct 2014 - Oct 2015)

ACADEMIC EMPLOYMENT

Sept 2021 - present

Postdoctoral Research Fellow | School of Psychological Science, Macquarie University Social Brain in Action (SoBA) Lab

• Interpersonal motor synchrony • Human-Robot interaction • Inhibition • fNIRS • Aesthetic appreciation

Jan - Sep 2021

Research Assistant | School of Psychological Science, Macquarie University

Social Brain in Action (SoBA) Lab

• Child-Robot interaction • Artificial agent perception • Qualitative analysis

Mar - Dec 2018

Research Assistant | Department of Linguistics, University of Potsdam

Laboratory for Oral Language Acquisition (LOLA) & BabyLAB

• Lingual coarticulation • Developmental language disorders • Ultrasound imaging • fNIRS

May - Aug 2016

Research Assistant | Department of Neurology, RWTH Aachen University Hospital

Section for Clinical Cognition Sciences & Stroke/Aphasia Units

• Language production • TMS • EEG • Electrical pharyngeal stimulation

RESEARCH OUTPUTS

Preprints

- Caruana, Moffat, Blanco & Cross. Perceptions of intelligence & sentience shape children's interactions with robot reading companions: A mixed methods study. Under review at Scientific Reports. doi: 10.31234/osf.io/7t2w9
- Moffat, Baskent, Luke, McAlpine & van Yper. Cortical haemodynamic responses predict individual ability to recognise vocal emotions with uninformative pitch cues but do not distinguish different emotions. Under review at Human Brain Mapping. doi: 10.31234/osf.io/jkvyd

Talks/ Workshops

- Cortical correlates of inhibition when observed by synchronised vs. non-synchronised peers. SFN, Nov 2022.
- Exploring metabolic responses to emotional prosody with fNIRS. Listen and Learn Workshop, Nov 2019.
- Pilot: Processing emotional prosody in normal hearing listeners with fNIRS, CIAP, Jul 2019.
- Workshop: Using FNIRS to Map Auditory Cortical Function. IERASG, Jul 2019.
- Towards an fNIRS paradigm to map emotional prosody processing. Sunnybrook Health Science Centre, Feb 2020.

Conference Posters

- A welcome social presence: Attentive and responsive robot reading buddies are preferred. AS4SAN, Jun 2022.
- Cortical responses to vocal emotions with attenuated voice pitch variation measured with fNIRS. sfNIRS, Oct 2021.
- Pilot: Mapping emotional prosody in normal hearing listeners with fNIRS. ARO, Jan 2020.
- Pilot: Using fNIRS to explore emotional prosody perception. SPIN Workshop, Jan 2020.