

## **RESEARCH SKILLS**

#### **Experimental techniques**

- fNIRS EEG TMS
- Ultrasound tongue imaging
- Behavioural
- Semi-structured interviews

#### **Software**

• PsychoPy • OpenPose • Praat • Adobe

## **Programming languages**

• R • Python • 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 LING
- 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 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

2021 | Manawari Cultural Safety Training

## RYSSA MOFFAT

#### POSTDOCTORAL RESEARCH FELLOW

Phone : +61 490473868 Address : 21 Carlton Street
Email : ryssa.moffat@mq.edu.au Manly, 2095, NSW

## **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

## ${\it Research Assistant} \ | \ {\it Department of Neurology, RWTH Aachen University Hospital}$

Section for Clinical Cognition Sciences & Stroke/Aphasia Units

 $\bullet \ Language \ production \ \bullet \ TMS \ \bullet \ EEG \ \bullet \ Electrical \ pharyngeal \ stimulation$ 

## **RESEARCH OUTPUTS**

#### **Peer-reviewed Articles**

- Caruana, **Moffat**, Blanco & Cross. Perceptions of intelligence & sentience shape children's interactions with robot reading companions: A mixed methods study. Submitted to *Scientific Reports*.
- **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. Submitted to *Human Brain Mapping*.

## **Conference 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.

## **Conference Posters**

- $\bullet \textit{A welcome social presence:} Attentive \textit{ and responsive robot reading buddies are preferred.} \textit{ AS4SAN, Jun 2022.} \\$
- $\bullet \textit{Cortical responses to vocal emotions with attenuated voice pitch variation measured with fNIRS. sfNIRS, Oct 2021. \\$
- 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.

#### **Invited Talks**

 $\bullet \textit{Towards an fNIRS paradigm to map emotional prosody processing.} \\ \textbf{Sunnybrook Health Science Centre}, \textbf{Feb 2020}. \\$