Sayeed Devraj-Kizuk

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Français

RESEARCH COORDINATOR

- **Computational neuroscientist** with **13 years experience** in academic and private research
- 10 years experience in **biosignal analysis**: EEG, EOG, EMG, ECoG, ECG, EDA, PPG, PSG
- Skilled at **communicating** technical concepts in understandable terms

TECHNICAL SKILLS

Python	Matlab / R / SPSS	Github	fMRI analysis
Electroencephalography	Polysomnography	Biosignal analysis	FFT/Wavelet/EMD
Machine Learning	Inferential statistics	BCI / HCI	Adobe Illustrator

EDUCATION

July 2015 - Dec 2018 **M.Sc.**, Neuroscience, University of Alberta, Edmonton

Sept 2011 - June 2015 **B.Sc. Honours,** Psychology, University of Alberta, Edmonton

WORK EXPERIENCE

Laboratory Coordinator
Nov 2023 – Present

Cognition, Audition and Time Lab, CRIR-IURDPM, Montreal

- Managing several research projects focused on auditory processing
- Stimulus preparation, equipment testing, participant recruitment, data collection, database organization, and analysis of EEG data.

Clinical Research Coordinator
April 2022 – Present

Hébert Lab, École d'audiologie et orthophonie, Université de Montréal, Montreal

- Research project seeking to improve sleep dysfunction in tinnitus sufferers
- Stimulus preparation, equipment testing, participant recruitment, data collection, database organization, and analysis of actigraph, EKG, and survey data.

Psychophysiologist
Jan 2021 – May 2022

RE-AK Technologies inc.

- Designed research-grade experiments using biometric and psychological survey assessments to observe holistic psychophysiological reactions to products.
- Developed processing and analysis pipelines for raw electrophysiological data.

Research Assistant
June 2020 – Aug 2020

Analytical Neurophysiology Lab, Montreal Neurological Institute, Montreal

- Performed data analysis on intracranial SEEG data in Matlab.
- Managed 2 projects on identifying and characterizing epileptic signals.

M.Sc. Candidate Brain Rhythms Lab, University of Alberta, Edmonton

Sept 2015 – Dec 2018 Attention Perception and Performance Lab, University of Alberta, Edmonton

- **Led multiple teams** of 2-4 people to accomplish projects over 3+ years
- **Published 3 papers**, presented at conferences in CA, USA, and EU

Projects

Resting State Awake Electrophysiology in Humans

- **Research published in 2019** in the journal "Psychophysiology"

Measuring Brain Waves during Attention: Electrophysiology in Humans

- Independently completed 3 experiments studying "alpha" brain waves
- **Research published in 2017** in the "Journal of Cognitive Neuroscience"

Honours student Mathewson Lab, University of Alberta, Edmonton

July 2014 - June 2015

- Successfully set-up and tested equipment in a new laboratory
- **Research published in 2016** in the journal "Psychophysiology"

Research Assistant Sex and Violence Lab, University of Alberta, Edmonton

May 2012 - June 2017

- Learned and pioneered new microscopy and histology techniques

SELECPUBLICATIONS

Gantman, A., **Devraj-Kizuk, S.**, Mende-Siedlecki, P., Van Bavel, J. J., & Mathewson, K. E. (2020). The time course of moral perception: an ERP investigation of the moral pop-out effect. *Social cognitive and affective neuroscience.*

Kizuk, S. A. D., Vuong, W., MacLean, J. E., Dickson, C. T., Mathewson, K. E. (2019). Electrophysiological correlates of hyperoxia during resting-state EEG in awake human subjects. *Psychophysiology*.

Kizuk, S. A. D., Mathewson, K. E., (2017). Power and phase of alpha oscillations reveal an interaction between spatial and temporal attention. *Journal of Cognitive Neuroscience*.

Mathewson, K.E., Harrison T. J. L., **Kizuk, S. D.** (2016). High and Dry?: Comparing active dry EEG electrodes to active and passive wet electrodes. *Psychophysiology*.

JOB-RELATED TRAINING

September 2016 SPR Time-Frequency Decomposition Pre-Conference Workshop

- Breakdown of Time-Frequency analysis by an expert in the field

July 2016 Advanced Workshop on Emerging Technologies and Concepts in Medical Imaging

- Gained hands-on experience with analysis of clinical neuroimaging data

June 2016 Introductory Workshop in Computational Methods in Neuroscience

- 10-day workshop on computational methods across many disciplines

UNIVERSITY SERVICE

Organizing committee Royce Psychology Conference

Feb 2016 - April 2016

- Created the conference program and served as liaison with attendees

Feb 2015 - April 2015

- Hosted visiting professors and presented lecturers during the conference

Councillor & Director Interdepartmental Science Student's Society

Oct 2013 - June 2014

- Organized a panel event attended by senior faculty members to raise undergraduate student awareness about governmental policies on science

INTERESTS

Cognitive Science | Mental Health | Language Learning | International Film