Alireza Kazemi

CENTER FOR MIND AND BRAIN
UNIVERSITY OF CALIFORNIA, DAVIS

✉ kazemi@ucdavis.edu

Education

Expected 2024	**Ph.D Candidate, Developmental and Cognitive Psychology** *University of California Davis*
2020	**M.A., Developmental and Cognitive Psychology** *University of California Davis*
2014	**M.Sc., Biomedical Engineering** *Univesity of Tehran*
2011	**B.Sc., Electronic Engineering** *University of Shahid Beheshti*

Positions

2017-Present	**Graduate Student Researcher** *University of California, Davis, Prof. Ghetti's Lab*
2017-Present	**Teaching Assistant** *16 quarters for PSC001, PSC100, PSC140, PSC141, PSC141Y, PSC146 at UCDavis, Department of Psychology*
2014-2017	**Researcher** *NR Sign Inc., R&D*
2011-2012	**Graduate Student Researcherr** *University of Tehran, Prof. Setarehdan's Lab*
2011 Feb.-Dec.	**Technical Advisor** *Padra Trading and Technology Ltd., Laboratory Instrumentation*
2010 Jul.-Dec.	**Technical assistant (as Trainee)** *Tehran Securities Exchange Technology Management Co.*
2008-2011	**Teaching Assistant** *Shahid Beheshti University, Electrical Engineering Department*

Publications

Kazemi, A., Coughlin, C., DeMaster, D., & Ghetti, S., (2022), Contextual Features in the Developing Hippocampus: A Representational Similarity Analysis. *Hippocampus* 1-12, **DOI**

Kazemi, A., McKeown, J.M., & Mirian, M.S., (2022), Sleep Staging Using Semi-Unsupervised Clustering of EEG: application to REM Sleep Behavior Disorder. *Biomedical Signal Processing and Control, 75,***DOI**

Kazemi, A., Mirian, M.S., & McKeown, J.M., (2021), Galvanic vestibular stimulation effects on EEG biomarkers of motor vigor in Parkinson's disease. *Frontiers in neurology, 12*, **DOI**

Selmeczy, D., **Kazemi, A.**, & Ghetti, S., (2021), Developmental Differences in Subjective Recollection and its Role in Decision Making *Child Development, 92* (6), **DOI**

Casciola, A.A., Carlucci, S.K., Kent, B.A., Punch, A.M., Muszynski, M.A., Zhou, D., **Kazemi, A.**, Mirian, M.S., Valerio, J., Mckeown, M.J., & Nygaard, H.B., (2021), A Deep Learning Strategy for Automatic Sleep Staging Based on Two-Channel EEG Headband Data. *Sensors, 21* (10), **DOI**

Leckey, S., Selmeczy, D., **Kazemi, A.**, Johnson, E., Hembacher, E., & Ghetti, S., (2020), Response latencies and eye gaze provide insight on how toddlers gather evidence under uncertainty. *Nature Human Behaviour, 4*(9), **DOI**

Bastany, Z. J., Askari, S., Dumont, G. A., Kellinghaus, C., **Kazemi, A.**, & Gorji, A., (2020), Association of cortical spreading depression and seizures in patients with medically intractable epilepsy. *Clinical Neurophysiology. 131*(12), **DOI**

Yaghouti, M., Sharifi, M.J., & **Kazemi, A.** (2013), Optimal spin-state transition in singly occupied quantum dots network. *Journal of Applied Physics, 113*(2), **DOI**

Presentations

Mirian, M.S., **Kazemi, A.**, Hussain R., Lee S., Verchere, W.D., Ward, R.K. & McKeown, M., Galvanic Vestibular Stimulation effects on LSTM-based EEG neuro-markers of Motor Vigor in Parkinson's Disease. Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation (November, 2021)

Kazemi, A., & Ghetti, S., Representational Similarity Analysis Reveals Development of Contextual Binding Along the Anterior-Posterior Axis of the Hippocampus. Society for Research in Child Development. (April, 2021). Virtual.

Selmeczy, D., **Kazemi, A.**, & Ghetti, S., "Should I ask for help?": How children weigh their confidence and available evidence. Cognitive Development Society. (October, 2019). Louisville, KY.

Selmeczy, D., **Kazemi, A.**, & Ghetti, S., "Should I use your hint?" How children integrate hints into their memory decisions. Society for Research in Child Development. (March, 2019). Baltimore, MD.

Methods Developed

_ Representational similarity analysis on temporal and spatial gaze-patterns

_ Representational similarity analysis on the time-course voxel-wise activations for SPM 12 outputs.

_ Semiunsupervised automatic sleep staging method applicable for clinical population.

_ Online sleepiness index estimation for the purpose of biofeedback using single channel EEG signal based on higher order statistical analysis

_ Fetal ECG extraction from abdominal signals.

_ Automatic Tuberculosis Bacilli segmentation in microscopic pictures using morphological methods.

_ Automatic detection of dangerous driving pattern in highways using distributed artificial intelligence approach.

Patents

Anxiety Remover, Sedative and Sleeping Smart Device	*Patents Of Iran*
Owner: Alireza Kazemi	
Patent Number: 1394/02/13 - 85581	*2015*

Certificates

Quantitative Neuro-microscopical Course	*3-Day Workshop*
From: Aarhus University & Shahid Beheshti University	*2016*
Advanced Workshop on Diffusion Tensor Imaging	*3-Day Workshop*
From: University Medical Center Utrecht	*2016*
International Certificate of Professional Matlab Programming	*170 Hours Training Course*
From: Iran Technical & Vocational Training Organization.	*2010*