

Alireza Kazemi

POSTDOCTORAL RESEARCH FELLOW

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Education

2024	Ph.D, Developmental and Cognitive Psychology <i>University of California Davis</i>
2020	M.A., Developmental and Cognitive Psychology <i>University of California Davis</i>
2014	M.Sc., Biomedical Engineering <i>Univesity of Tehran</i>
2011	B.Sc., Electronic Engineering <i>University of Shahid Beheshti</i>

Honors & Awards

2023	Department of Psychology Dissertation Enhancement Fellowship , University of California, Davis
2022	Department of Psychology Summer Research Fellowship , University of California, Davis
2022	Dukes Travel Award for Psychology , University of California, Davis
2017	Psychology First-Year Fellowship for Academic Excellence , University of California, Davis
2017	Psychology First-Year Research Fellowship , University of California, Davis

Positions

2024-Present	Postdoctoral Research Fellow <i>University of Utah, Utah, Prof. Inman's Lab</i>
2017-2024	Graduate Student Researcher <i>University of California, Davis, Prof. Ghetti's Lab</i>
Winter 2023 quarter	Assistant Instructor <i>PSC146 - The Development of Memory</i>
2017-2024	Teaching Assistant <i>Department of Psychology</i>
2014-2017	Researcher <i>NR Sign Inc., R&D</i>
2011-2012	Graduate Student Researcher <i>University of Tehran, Prof. Setarehdan's Lab</i>
2011 Feb.-Dec.	Technical Advisor <i>Padra Trading and Technology Ltd., Laboratory Instrumentation</i>
2010 Jul.-Dec.	Technical assistant (as Trainee) <i>Tehran Securities Exchange Technology Management Co.</i>
2008-2011	Teaching Assistant <i>Shahid Beheshti University, Electrical Engineering Department</i>

Publications

- Kazemi, A.,** Nouri, S., Mirian M.S., Lee S., & McKeown J.M., (2025), Predicting Motor Vigor from EEG Phase Amplitude Coupling (PAC) in Parkinson's Disease: Effects of Dopaminergic Medication and Non-invasive Modulation. *In Press, medRXiv Preprint DOI*
- Kazemi, A.,** Christopher-Hayes, N., Lee, J., Geng, J. & Ghetti, S., (2023), Looking Behavior and Relational Memory: Novel Approaches to Analyze Temporal Dynamics of Eye Movements. *PsyArXiv Preprint,*

DOI

- Selmezy, D., **Kazemi, A.**, & Ghetti, S., (2023), Seeking Versus Receiving Help: How Children Integrate Suggestions in Memory Decisions. *Child Development*, DOI
- Kazemi, A.**, & Ghetti, S., (2023), HMLET – a Handy Machine-Learning based package for Eye-Tracking data analysis. *Github Manual*, Link
- Arani K.S., **Kazemi, A.**, Mirian M.S., Vahabie A., Verchere W.D., Lee S., Soltanian-Zadeh H., & McKeown J.M., (2022), Evaluating the Effect of Galvanic Vestibular Stimulation in Parkinson's disease via Microstate Resting State EEG Analysis. *29th National and 7th International Iranian Conference on Biomedical Engineering* , DOI
- 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
- Selmezy, 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., Selmezy, 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

- Mooney, L., Karjack, S., **Kazemi, A.**, & Ghetti, S., Hippocampal Function and Memory in the Second Year of Life. Society for Developmental Cognitive Neuroscience Flux conference. (September, 2023). Santa Rosa, California.
- Kazemi, A.**, Mooney, L., & Ghetti, S., Word Learning in Toddlers, a Representational Similarity Analysis. International Conference on Learning and Memory (April, 2023). Huntington Beach, California.
- Kazemi, A.**, Mooney, L., & Ghetti, S., Examining Reactivation of Hippocampal Representations in Sleeping Toddlers. Society for Research in Child Development (March, 2023). Salt Lake City, Utah.
- Mooney, L., **Kazemi, A.**, & Ghetti, S., **Representational Similarity in the Toddler Hippocampus**. FLUX (September, 2022). Paris, France.
- 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 (December, 2021), Charsleston, South Carolina.
- 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.

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

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, Maryland.

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, Kentucky.

Patents

Anxiety Remover, Sedative and Sleeping Smart Device

Owner: Alireza Kazemi

Patents Of Iran

Patent Number: 1394/02/13 - 85581

2015