

# Alireza Kazemi

POSTDOCTORAL RESEARCH FELLOW

UNIVERSITY OF UTAH

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## Education

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

## Positions

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2024-Present	<b>Postdoctoral Research Fellow</b> <i>University of Utah, Utah, Prof. Inman's Lab</i>
2017-2024	<b>Graduate Student Researcher</b> <i>University of California, Davis, Prof. Ghetti's Lab</i>
Winter 2023 quarter	<b>Assistant Instructor</b> <i>PSC146 - The Development of Memory</i>
2017-Present	<b>Teaching Assistant</b> <i>18 quarters for PSC001, PSC100, PSC140, PSC141, PSC141Y, PSC146 at UCDavis, Department of Psychology</i>
2014-2017	<b>Researcher</b> <i>NR Sign Inc., R&amp;D</i>
2011-2012	<b>Graduate Student Researcherr</b> <i>University of Tehran, Prof. Setarehdan's Lab</i>
2011 Feb.-Dec.	<b>Technical Advisor</b> <i>Padra Trading and Technology Ltd., Laboratory Instrumentation</i>
2010 Jul.-Dec.	<b>Technical assistant (as Trainee)</b> <i>Tehran Securities Exchange Technology Management Co.</i>
2008-2011	<b>Teaching Assistant</b> <i>Shahid Beheshti University, Electrical Engineering Department</i>

## Publications

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- 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*
- Selmechy, 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

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- 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), Charleston, 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., Selmezy, 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.
- Selmezy, 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.**, & Ghetty, S., “Should I ask for help?”: How children weigh their confidence and available evidence. Cognitive Development Society. (October, 2019). Louisville, Kentucky.

## Patents

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### **Anxiety Remover, Sedative and Sleeping Smart Device**

*Owner: Alireza Kazemi*

*Patents Of Iran*

**Patent Number:** 1394/02/13 - 85581

*2015*