



### Contact Info

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### Current Position

- Assistant Professor, Department of Computer Science, Faculty of Mathematical Sciences, Alzahra University, Tehran, Iran (Since January 2023).
- Nonresident Senior Researcher, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran (Since 2023).

### Research Areas

- Integration of AI, machine learning, deep learning, and reinforcement learning in cognitive modeling and bioinformatics
- Analysis of visual perception, psychophysics, and behavioral and eye-tracking data
- Medical image and signal processing, focusing on brain connectivity

### Education

Year	Degree/Certificate	Institution
2021-2023	Postdoctoral Researcher (Artificial Intelligence)	School of Computer Science, Institute for Research in Fundamental Sciences (IPM)
2018-2019	Research Visit (Visual Perception)	Donders Center for Neuroscience, Radboud University, Nijmegen, Netherlands
2014-2020	PhD (Cognitive Modeling)	Institute for Cognitive and brain Science (ICBS), Shahid Beheshti University (SBU)
2011-2013	MSc (Computer Science)	Computer Science Department, Shahid Beheshti University (SBU)
2008-2011	BSc (Computer Science)	Computer Science Department, Shahid Beheshti University(SBU)

### Career Details

Year	Designation	Institution
2023 onwards	Assistant Professor	Alzahra University
2023 onwards	Nonresident senior researcher	IPM
2021-2023	Postdoctoral Researcher	IPM
2018-2019	Research Visitor	Donders Center for Neuroscience
2014-2020	PhD Candidate	Shahid Beheshti University

## Honors and Awards

- IBRO School Award, 2015, 2019 and 2024.
- Defended doctoral dissertation with an excellent degree, 2019.
- Top researcher award among PhD students, Shahid Beheshti University 2018.
- Dr. Shahriari Scholarship Winner, National Elite Foundation of Iran, 2017.
- Granted PhD proposal by Iran Cognitive sciences and technology council, 2016.
- Exceptional Talent Student Title (PhD Exemption), Shahid Beheshti University, 2014.
- Exceptional Talent Student Title (MSc Exemption), Shahid Beheshti University, 2011.
- Winner of several best paper awards and travel grants.

## Teaching Experience

### Undergraduate Courses:

- Artificial Intelligence, Machine Learning, Image Processing, Advanced Topics, Neural Networks, Data Structures, Basic and Advanced Programming, Operating Systems, Compilers, Computer Lab  
*(At Alzahra University; guest lecturer at Sharif University, Shahid Beheshti University, and Shafieh University)*

### Graduate Courses:

- Bioinformatics Basics, Machine Learning, Advanced Bioinformatics Topics, Computational Algorithms, Deep Learning for Life Sciences  
*(At Alzahra University; guest lecturer at Shahid Beheshti University)*

## Membership and Professional Services

- Member, Brain and Movement Research Group, University of Tabriz (2023 - Present)
- Member, IPM Artificial Intelligence Laboratory (2020 - Present)
- Member, Iranian Society for Cognitive Science and Technology (ISCST) (2014 - Present)
- Alumni, IBRO International School (2015)
- Executive Committee Member, Fifth and Sixth International Advanced Schools of Computing in Artificial Intelligence (ASOC 2021 and 2022)
- Scientific and Executive Committee Member, Fourth, Fifth, and Sixth National Informatics Conference (NIC 2023 - 2025)
- Scientific Committee Member, 13th National Conference and 3rd International Conference on Computer Vision and Image Processing (MVIP 2024)

## Publications

### Peer-reviewed Journal Articles

- **Rezvani, Z.**, Khosrowabadi, R., Seyedebrahimi, A., Meftahi, G. H., & Hatef, B. (2024). Stress Induction and Release: Electroencephalography Study on Brain Networks and Cortisol. *Basic and Clinical Neuroscience*, 15(5), 607-616.
- **Rezvani, Z.**, Jamali, N., Katanforoush, A., & Sabokrou, M. (2023). Network Analysis of Informal Social Media Conversations about Autism. *Journal of Neurodevelopmental Cognition*, 3(1), 16-21.
- **Rezvani, Z.**, Katanforoush, A., van Wezel, R., & Pouretmad, H. (2022). Arbitrary Eye Movement Strategies in Global-Local Processing Experiments. *Journal of Neurodevelopmental Cognition*, 2, 98-109.
- Sobhani, V., **Rezvani, Z.**, Meftahi, G. H., Ghahvehchi-Hosseini, F., & Hatef, B. (2022). The Linear and Nonlinear Indices of Electroencephalography Change in the Stroop Color and Word Test. *Journal of Modern Rehabilitation*.
- Kirkels, L. A. M. H., Zhang, W., **Rezvani, Z.**, van Wezel, R. J. A., & van Wanrooij, M. M. (2021). Visual motion integration of bidirectional transparent motion in mouse opto-locomotor reflexes. *Scientific Reports*, 11(1), 10490.
- **Rezvani, Z.**, Katanforoush, A., & Pouretmad, H. (2020). Global precedence changes by environment: A systematic review and meta-analysis on effect of perceptual field variables on global-local visual processing. *Attention, Perception, & Psychophysics*, 82(5), 2348-2359.
- Zhang, W., **Rezvani, Z.**, van Wezel, R. J., & Kirkels, L. A. (2020). Monocular and binocular opto-locomotor reflex biases for random dot motion in mice. *Journal of vision*, 20(2), 6-6.
- **Rezvani, Z.**, Khosrowabadi, R., Seyedebrahimi, A., Meftahi, G. H., & Hatef, B. (2020). Alteration of brain functional network and cortisol level during induction and release of stress: An EEG study in young male adults. *Basic and Clinical Neuroscience*, 0-0.
- Chehrehnegar, N., Nejati, V., Shati, M., Esmaeili, M., **Rezvani, Z.**, Haghi, M., & Foroughan, M. (2019). Behavioral and cognitive markers of mild cognitive impairment: diagnostic value of saccadic eye movements and Simon task. *Aging clinical and experimental research*, 31, 1591-1600.
- Zare, M., **Rezvani, Z.**, & Benasich, A. A. (2016). Automatic classification of 6-month-old infants at familial risk for language-based learning disorder using a support vector machine. *Clinical Neurophysiology*, 127(7), 2695-2703.
- Keshvari, F., **Rezvani, Z.**, Ghassemi, F., & Pouretmad, H. (2016). Temporal correlates of intuition and cognitive control in moral decision, making in different social contexts. *European Psychiatry*, 33(S1), S140-S140.

### Selected Conference Papers

- Cheshmi, S. S., Mahyar, A., Soroush, A., **Rezvani, Z.**, & Farahani, B. (2023). Brain Age Estimation Using Structural MRI: A Clustered Federated Learning Approach. *2023 IEEE International Conference on Omni-layer Intelligent Systems (COINS)*.
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- **Rezvani, Z.**, Mousavian, S., Azimi, D., & Jabbari, P. (2023). Online AI-Based Cognitive Assessment Platform for Comprehensive Cognitive Evaluation. *12th Basic and Clinical Neuroscience Congress 2023*.
- **Rezvani, Z.**, Khanmohamadi, M., & Akhgari, A. (2023). Comprehensive Eye-Tracking Analysis of Global-Local Processing in Selective Attentional Tasks. *12th Basic and Clinical Neuroscience Congress 2023*.
- Ghader, M., Farahani, B., **Rezvani, Z.**, Shahsavari, M., & Fazlali, M. (2023). Exploiting Federated Learning for EEG-based Brain-Computer Interface System. *2023 IEEE International Conference on Omni-layer Intelligent Systems (COINS)*.
- **Rezvani, Z.**, Jamali, N., Pouretmad, H., Katanforoush, A., & Sabokrou, M. (2022). Informal Social Media Conversations about Autism, Network Study. *Joint Symposium of Cognitive Sciences*.
- **Rezvani, Z.**, & Katanforoush, A. (2015). Recognition of Farsi handwriting strokes using profile HMM. *2015 2nd International Conference on Pattern Recognition and Image Analysis (IPRIA)*.

## Languages

- English (Advanced), German (Intermediate), Arabic (Intermediate), Persian (Native).
- Passionate about learning more languages!

## References

- Prof Richard van Wezel, Professor in Visual Neuroscience, Donder Institute, Radboud University. Email: [richard.vanwezel@donders.ru.nl](mailto:richard.vanwezel@donders.ru.nl)
- Prof. HamidReza Pouretmad, Professor of Clinical Neuropsychology, Shahid Beheshti University. Email: [h-pouretmad@sbu.ac.ir](mailto:h-pouretmad@sbu.ac.ir)
- Dr. Ali Katanforoush, Assistant Professor of Computer Science, Shahid Beheshti University. Email: [a\\_katanforosh@sbu.ac.ir](mailto:a_katanforosh@sbu.ac.ir)