

Amirali Soltani Tehrani

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EDUCATION

University of Delaware

Ph.D. Student in Interdisciplinary Neuroscience Program; GPA: 4.0/4.0

Newark, DE

Jan 2025 – Present

University of Tehran

M.Sc in Electrical Engineering (Control Engineering); GPA: 3.56/4.00

Tehran, Iran

Sep 2021 – Sep 2024

B.Sc. in Electrical Engineering (Telecommunication Systems); GPA: 3.53/4.00

Sep 2017 – Sep 2021

Minor Degree in Computer Engineering;

Sep 2019 – Dec 2020

AWARDS & ACHIEVEMENTS

Bachelors Entrance National Exam: Ranked 14th among 130000 participants in Physics and Mathematics field (Jul 2017)

Masters Entrance National Exam: Ranked 17th among 10000 participants in Electrical Engineering field (Jul 2021)

PUBLICATIONS

Object Recognition from Dynamic Cues: Examining the Inversion Effect (2026)

Niloufar Faridani, Shifa Maqsood, Sophia Robert, Amirali Soltani Tehrani, Maryam Vaziri-Pashkam

PsyArXiv

Microsaccade Selectivity as Discriminative Features for Object Decoding (2025)

Salar Nouri, Amirali Soltani Tehrani, Niloufar Faridani, Ramin Toosi, Mohammad-Reza A. Dehaqani

iScience

Eye Movements during Sentence Processing in High-Functioning Autistic Children Compared to Neurotypical Peers (2025)

Faezeh Dehghan, Mehdi Alizadeh Zarei, Reza Khosro Abadi, Hashem Farhangdost, Amirali Soltani Tehrani, Mohamad Taghi Joghathii

Basic and Clinical Neuroscience

CONFERENCES

Object representations in the human parietal and occipito-temporal cortices in a grasping task

Amirali Soltani Tehrani, Kristin Woodard, Emalie McMahon, Leah Ettensohn, Natalia Pallis-Hassani, John Ingeholm, Leslie Ungerleider, Chris Baker, Maryam Vaziri-Pashkam

VSS 2026

Grasp-relevant Representation of Objects in the Human Parietal and Occipito-temporal Cortices

Amirali Soltani Tehrani, Kristin Woodard, Emalie McMahon, Leah Ettensohn, Natalia Pallis-Hassani, John Ingeholm, Leslie Ungerleider, Chris Baker, Maryam Vaziri-Pashkam

CCN 2026

Enhancing Supervised Learning in Speech Emotion Recognition through Unsupervised Representations (2023)

Amirali Soltani Tehrani, Niloufar Faridani*, Ramin Toosi*

14th IKT Conference

RESEARCH EXPERIENCE

Graduate Research Assistant

Jan 2025 – Present

Movement and Visual Perception Lab, University of Delaware

- Grasping multiple objects in the MRI scanner
- Cortical vs subcortical brain activity imaging with MRI scanner

Graduate Research Assistant

Sep 2020 – Sep 2024

Brain Computing Lab at Centre For Convergent Technologies Research, University of Tehran

- Design and development of an eye tracking system
- Decoding visual imagery of piano vs face using EEG data
- Developing an BCI game using mobile EEG for kids
- ASD vs TD sentence processing via eye tracking data

Graduate Research Assistant

Sep 2021 – Sep 2024

Brain Computing Lab at Institute for Research in Fundamental Sciences (IPM)

- Central vs peripheral visual representation of images via electrophysiological data recording

Remote Research Assistant

Dec 2023 – Sep 2024

Computational Machinery of Cognition Lab at Medical Campus TU Dresden

- Multi array recording analysis from monkeys

TEACHING EXPERIENCE

Teacher Assistant

Jun 2023 - Jul 2023

Neuromatch Academy

Head Teaching Assistant

Sep 2020 - Dec 2024

University of Tehran

- Engineering Probability and Statistics
- Introduction to Statistical Inference
- Introduction to Machine Learning
- Communication System I

Head Teaching Assistant

Jan 2021 - Jun 2021

Institute for Research in Fundamental Sciences (IPM)

- Introduction to Statistical Inference

Teaching Assistant

Sep 2018 - Jun 2023

University of Tehran

- Introduction to Cognitive Science and Neuroscience
- Engineering Probability and Statistics
- Introduction to Statistical Inference
- Signals and Systems
- Communication Systems I
- Linear Control Systems Laboratory

SKILLS

Programming: C, C++, Python, MATLAB, R, $\text{\LaTeX}$, Git

Libraries: Nibabel, PsychoPy, PsychToolbox, EEGLab, AllenSDK, OpenCV, Scikit-Learn, PyTorch, Keras, NumPy, Pandas, Matplotlib, Seaborn, dplyr, ggplot2

Applications: AFNI, fmripreg, FSL

Languages: Persian (Native), English (Professional)

MEMBERSHIPS

Vision Sciences Society (VSS)

Society for Neuroscience (SfN)

Computational and Cognitive Neuroscience (CCN)