# Farhad Farkhondeh Tale Navi

Assistant Professor, Department of Cognitive Neuroscience
Faculty of Education and Psychology,
University of Tabriz, 29 Bahman Blvd., Tabriz, Iran
Email: farkhondeh_f@tabrizu.ac.ir
Phone: +98 9356149438

https://orcid.org/0000-0001-9174-5902

## Educations

- **Ph.D. in Cognitive Neuroscience** **Sep.2016 – Jun.2022**
  University of Tabriz, Tabriz, Iran

- **M.S. in Mechanical Engineering** **Sept. 2007 – Mar. 2010**
  Shahid Beheshti University (SBU), Tehran, Iran

- **Bachelor of Mechanical engineering** **Sept 2002- Jul. 2007**
  Isfahan university of Technology, Isfahan, Iran

Golpayegan College of Engineering
Isfahan University of Technology

## Research Interests

- Mechanisms and Functions of Brain Oscillations
- Learning and Memory
- Closed-loop Neuromodulation
- Numerical Cognition
- Decision Making
- Computational Neuroscience

## Attended Congress and workshops

- Attended at the Sixth International Conference of Cognitive Science (ICCS 2015) "**Gateways to Enter the Field of Cognitive Neuroscience**", April 27-29, 2015, Tehran, Iran.
- Attended a 3-day workshop on "**Introduction of EEG Biofeedback (Neurofeedback)**" Sponsored by Farmedschool.16th –18th November 2016, Tehran, Iran.
- Attended a 2-day workshop on "**Hands on Statistics with R, Applied Methods in Cognitive Sciences**" organized by School of Cognitive Sciences at Institute for Research in Fundamental Sciences (IPM), 7th – 9th March 2017, Tehran, Iran.
- Attended a 2-day workshop on "**Rodent Electrophysiology, Imaging and Data Analysis**" organized by School of Cognitive Sciences at Institute for Research in Fundamental Sciences (IPM), 9 - 10 December 2017, Tehran, Iran.
- Attended a one-day Workshop on "**Optogenetics: Controlling the brains function with laser**" organized by Research Institute for Applied Physics and Astronomy, University of Tabriz, 11 December 2017, Tabriz, Iran.
- Attended a one-day Workshop on "**Sleep Oscillation and Memory**" that took placed at the School of Cognitive Sciences at Institute for Research in Fundamental Sciences (IPM), 30 Jan, 2018, Tehran, Iran.

- Attended a 2-day seminar on "**Brain Mapping Skills Training**" organized by National Brain Mapping Laboratory (NBML), 31Jan & 1Feb 2018, Tehran, Iran.
- Presented a lecture on "**Principles and Applications of EEG in Cognitive Neurosciences**" in the occasion of the Brain Awareness Week at the University of Guilan, 26 March 2018, Guilan, Iran.
- Participated in "**2nd Iranian Symposium on Brain Mapping Updates (ISBM2018)** "organized by National Brain Mapping Laboratory (NBML), 10th & 11th October 2018, Tehran, Iran.
- Attended a 2-day workshop on "**LFP recording in freely moving rats**" organized by Iranian Society of Physiology and Pharmacology held in the Neuroscience Research Center, Shahid Beheshti University of Medical Sciences,4 - 5 December 2018, Tehran, Iran.
- Presented a lecture on "**Electrophysiological Experiments in Closed-Loop Paradigm**" as a member of **"Closed-loop Neurofeedback systems" Panel** in the 7th Basic & Clinical Neuroscience Congress (BCNC2018) 12-14, December 2018 Tehran, Iran.
- Presented a lecture on "**Computational Approaches in Studying Social and Cognitive Neuroscience**" in the 7th Basic & Clinical Neuroscience Congress (BCNC2023),Tehran, Iran, December 27-29, 2023

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## Professional Memberships

Iranian Society for Cognitive science & Technology

Iranian Neuroscience Society

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## Teaching Experience

- Instructor at Information Technology Department, Faculty of Technology and Engineering, Payame Noor University (PNU) of Guilan, Iran ,2012-2020.
- Assistant Professor, Department of Cognitive Neuroscience, Faculty of Education and Psychology, University of Tabriz, 29 Bahman Blvd., Tabriz, Iran, Sep.2023 - Present

### Teaching Courses

- Cognitive modeling
- Research and statistical methods in cognitive science
- Intelligent assistive technology for cognitive rehabilitation
- Technological methods of screening and cognitive interventions
- Applied Statistical Inference
- Signal processing and analysis in neuroscience
- Cognitive disorders

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## Computer Skills

Data analysis and Programming: MATLAB, R, EEG Lab, GraphPad Prism, Python.

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## Book translation

EEG methods for the psychological sciences, link: https://www.gisoom.com/book/44853817/

**Collaboration in Research Projects:**

- *The effect of Astroglial connexin 43 on synaptic plasticity of the CA1 hippocampal neurons in the morphine-dependent rat*, project **No. 96011035** registered at Iran National Science Foundation (**INSF**) with Dr.S. Heysieattalab (PI).

- *The effect of social hierarchy on spatial working memory: the behavioral and electrophysiological indexes in olfactory bulb-ventral hippocampus–medial prefrontal cortex circuit,* Elham Bakhshi, S. Heysieattalab (PI)

- *Investigating the effect of social hierarchy formation on the mPFC-vHPC circuit during performing spatial working memory task*, Faezeh Zarfsaz, Dr.S. Heysieattalab (PI). project **No. 4012752** registered at Iran National Science Foundation (**INSF**)

- *The effects of social hierarchy on inhibitory control*: An ERP study, Soroush Fazel, Dr. S. Heysieattalab (PI).
- *The Effects of Social Status on Effort-based Decision-Making in Male Rats:Evaluating the Behavioral and Electrophysiological Indexes in ACC -OFC- Amygdala Circuits.*Ghazaleh.Roushani, Dr.S. Heysieattalab (PI). project **No. 4032009** registered at Iran National Science Foundation (**INSF**)
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**Research Profiles:**

https://scholar.google.com/citations?user=_t0rGS0AAAAJ&hl=en (h-index:5 , i-10 index:2)

https://www.webofscience.com/wos/author/record/M-9392-2014

https://www.researchgate.net/profile/Farhad-Farkhondeh-Tale-Navi

https://loop.frontiersin.org/people/2608388/editorial

https://www.scopus.com/authid/detail.uri?authorId=57383283300

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## Peer Review Activity

- *Applied Neuropsychology*
- *Brain and Behavior*
- *European Journal of Psychotraumatology*
- Journal of Medical Engineering & Technology
- IEEE Access
- Journal of Affective Disorders
- Basic and Clinical Neuroscience

## Polished International Journal Articles

Social subordination is associated with better cognitive performance and higher theta coherence of the mPFC-vHPC circuit in male rats — 2025
F Zarfsaz, S Heysieattalab, A Jaafari suha, F Farkhondeh Tale Navi, ...
PloS one 20 (4), e0320952

Iranian 6-11 years age population-based EEG, ERP, and cognition dataset
MA Nazari, S Abbasi, M Rezaeian, S Heysieattalab, H Safakheil, ..., FFT Navi
Scientific Data 12 (1), 319

How is social dominance related to our short-term memory? An EEG/ERP investigation of encoding and retrieval during a working memory task — 2024
H Mohamadpour, FFT Navi, S Heysieattalab, M Irak, AH Vahabie, ...
Heliyon 10 (17)

Adaptive closed-loop modulation of cortical theta oscillations: Insights into the neural dynamics of navigational decision-making — 2024
FFT Navi, S Heysieattalab, MR Raoufy, S Sabaghypour, M Nazari, ...
Brain Stimulation 17 (5), 1101-1118

Exploring neural correlates of social dominance: Insights from behavioral, resting-state EEG, and ERP indices — 2024
H Mohamadpour, FFT Navi, FA Asl, S Heysieattalab, E Shakeri, ...
Brain and Cognition 178, 106177

Neuromusculoskeletal Modeling of Elbow Flexion/Extension–Aided by OpenSim — 2024
MRS Noorani, FFT Navi, K Khojand
9th Advanced Engineering Days (AED)

The dark and bright side of the numbers: How emotions influence mental number line accuracy and bias — 2024
S Sabaghypour, F Farkhondeh Tale Navi, E Kulkova, P Abaduz, N Zirak, ...
Cognition and Emotion 38 (5), 661-674

Differential roles of brain oscillations in numerical processing: Evidence from resting-state EEG and mental number line — 2024
S Sabaghypour, F Farkhondeh Tale Navi, N Basiri, F Shakibaei, N Zirak
Frontiers in Human Neuroscience 18 (doi: 10.3389/fnhum.2024.1357900), 1357900

Electrophysiological correlates of cognitive control and performance monitoring in risk propensity: An event-related potential study — 2024
MA Nazari, S Naghel, S Abbasi, AK Naghadehi, B Nikzad, ...
Brain and Cognition 175, 106136

Unraveling the Social Hierarchy: Exploring Behavioral and Neural Dynamics in Shaping Inhibitory Control — 2024
S Fazel, AH Vahabie, FFT Navi, S Heysieattalab
Behavioural Brain Research, 114686

Computational Approaches in Studying Social and Cognitive Neuroscience — 2023
FFT Navi
BCNC2023 Program,Tehran, Iran, December 27-29, 2023 10 (2), 8

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| Distinguishing Dominant Leaders by their Resting-state EEG Signals<br>H Mohamadpour, F Farkhondeh Tale Navi, E Shakeri, S Heysieattalab<br>IBRO Neuroscience Reports 15, S580 | 2023 |
| Machine learning-based classifying of risk-takers and risk-aversive individuals using resting-state EEG data: A pilot feasibility study<br>R Eyvazpour, FFT Navi, E Shakeri, B Nikzad, S Heysieattalab<br>Brain and Behavior 13 (9), e3139 | 2023 |
| Time distortions induced by high-arousing emotional compared to low-arousing neutral faces: an event-related potential study<br>M Hosseini Houripasand, S Sabaghypour, F Farkhondeh Tale Navi, ...<br>Psychological Research 87 (6), 1836-1847 | 2023 |
| Do numbers make us handy? Behavioral and electrophysiological evidence for number-hand congruency effect<br>S Sabaghypour, HS Moghaddam, FFT Navi, MA Nazari, M Soltanlou<br>Acta psychologica 233, 103841 | 2023 |
| Training the brain to time: the effect of neurofeedback of SMR–Beta1 rhythm on time perception in healthy adults<br>B Behzadifard, S Sabaghypour, F Farkhondeh Tale Navi, MA Nazari<br>Experimental Brain Research 240 (7), 2027-2038 | 2022 |
| Closed-loop modulation of the self-regulating brain: A review on approaches, emerging paradigms, and experimental designs<br>FFT Navi, S Heysieattalab, DS Ramanathan, MR Raoufy, MA Nazari<br>Neuroscience 483, 104-126 | 2022 |
| Panel: Closed-Loop Neurofeedback Systems<br>Mohammad Ali Nazari,Fahimeh Parsaei, Farhad Farkhondeh Tale Navi, Soomaayeh ...<br>BCNC2018 Program,Tehran, Iran, 7 | 2018 |