

Elham Bakhshi Jifroudi

Cognitive Neuroscience Department

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KEY EXPERTISE

1) Rat stereotaxic surgery. 2) LFP Data gathering 3) Data Analysis. 4) In Vivo Electrophysiology. 5) Signal Processing

EDUCATION

University of Tabriz

Ph.D. Student in Cognitive Neuroscience

Tabriz, Iran

2025/09 – Present

University of Tabriz

M.Sc. in Cognitive Psychology

Tabriz, Iran

2021/09 – 2023/09

Thesis: The effect of social hierarchy on spatial working memory: evaluating the behavioral and electrophysiological indexes in olfactory bulb-ventral hippocampus–medial prefrontal cortex circuit.

Advisors: Dr. Soomaayeh Heysieattalab

CURRENT RESEARCH FOCUS

- F1. OB-mPFC-vHPC Circuit
- F2. Working Memory
- F3. Social Hierarchy
- F4. Brain Oscillations in Animal
- F5. Signal Processing
- F6. Animal Behavior

SELECTED COURSES

MSc of Cognitive Psychology

- Laboratory Methods in Cognitive Psychology
- Cognitive rehabilitation
- Mindfulness
- Research method
- Cognitive Neuroscience
- Cognitive Psychology
- Cognitive Foundations of Psychopathology

B.Sc. of Psychology

- Neurophysiology and Endocrinology
- Descriptive statistics
- Inferential statistics
- Social Psychology
- Cognitive Psychology
- Physiological Psychology
- Personality Psychology
- Psychology of learning
- Developmental Psychology
- Clinical Psychology
- Psychometric
- Motivation and excitement¹
- Psychological tests

SELECTED PROJECTS

- Projects at *university of Tabriz*, September 2021-2023
 1. “The effect of social hierarchy on spatial working memory: evaluating the behavioral and electrophysiological indexes in olfactory bulb-ventral hippocampus–medial prefrontal cortex circuit.”
 2. “Investigating the effect of social hierarchy formation on mPFC-vHPC circuit during performing spatial working memory cognitive task.”

EXPERIENCES

Working Experiences

- **Senior** at Cognitive Neuroscience Lab, University of Tabriz, Iran, Tabriz, Mar2023–Present.
- **TA** at Cognitive Neuroscience Lab, University of Tabriz, Iran, Tabriz, Mar2023–Present.
- **Intern** at Cognitive Neuroscience Lab, University of Tabriz, Iran, Tabriz, Jun 2022- Aug2022

Research Experiences

- **Research Associate** – Cognitive Neuroscience Lab, University of Tabriz, Iran, Tabriz, Sep2022 – Sep 2023.

TRAINING COURSES

- **Signal Processing**, Tehran,Iran,Sep 2022
- **Neurofeedback**,Tehran,Iran,Apr 2018

TECHNICAL SKILLS

- Software Tools:
 1. MATLAB
 2. GraphPad Prism
 3. SPSS
 4. word press
 5. Excel
- Neuroscience:
 1. Local field potential
 2. Data Gathering
 3. Signal Processing
 4. LFP Signal Analysis
 5. Data Analysis
 6. Rat Stereotaxic Surgery
 7. In Vivo Electrophysiology
 8. Animal Behavior
 9. Research

PUBLICATIONS

Conference Poster Presentation

1. Elham Bakhshi Jifroudi¹, Faezeh Zarfsaz², Farhad Farkhondeh Tale Navi³, Yousef Panahi⁴, Soomaayeh Heysieattalab* “The effect of social hierarchy on spatial working memory”, International congress of basic and clinical neuroscience, (2023).

HONORS and AWARDS

- **Winner of The Best Thesis Award**, The 12th international congress of basic and clinical neuroscience, Des2023

REFERENCES

- **Dr. Soomaayeh Heysieattalab, Associate Professor**
University of Tabriz, Department of Cognitive Neuroscience
E-mail: heysieattalab@gmail.com
- **Dr. Farhad Farkhondeh Tale Navi, Assistant Professor**
University of Tabriz, Department of Cognitive Neuroscience
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