

EDUCATION

University of Oklahoma Ph.D. Student in Biomedical Engineering *September 2024 - Present*
Advisors: Dr. Farnaz Zamani Esfahlani

Sharif University of Technology Bachelor of Science in Mathematics *September 2017 - May 2023*

RESEARCH INTEREST

My research investigates how cognitive functions emerge from the dynamic configuration of large-scale brain networks. I develop and apply computational models to infer the dynamics of cognitive processes from their correlates within high-dimensional brain measurements, focusing on attention, memory and higher-order faculties such as language.

PUBLICATIONS

1. Reproduction of "Tracking the World State with Recurrent Entity Networks." Mehrnaz Mofakhami, **Amirhossein Yavari**. *Poster presented at EEML Summer School 2021. **Best Poster Award**.*

EXPERIENCE

ShenakhtPajouh Lead Researcher *Sep 2018 – Dec 2020*
Deep learning researcher at ShenakhtPajouh, working on Natural Language Generation, with the goal of acquiring more explainable and interpretable models and methods.

University of Essex Scientific Collaborator *Sep 2020 – Jun 2021*
We worked on a project in deep natural language processing. It is a classification problem on Potentially Idiomatic Expression (PIE).

SKILLS

Programming and Softwares: Python, Java, PyTorch, Tensorflow, Jax, Git, R, Matlab.

HONORS

- **Feb. 2025** Third place in the American Airlines Operation Research and Advanced Analytics Hackathon.

RELEVANT COURSEWORK

Neuroscience: Neurobiology of Disease, Neural Data Science.

Machine Learning: Machine Learning, Regression Analysis.

Computer Science & Mathematics: Theory of Computation, Network Optimization, Probability & Statistics, Linear Algebra, Real Analysis, Functional Analysis, Advanced Programming.