Sepehr Saeedpour

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Research Interests

- Learning & Decision-making
- Cognitive science
- Machine Learning

Education

- **University of Tehran** — Tehran, Iran
  B.Sc. in Electrical Engineering — 2017 - 2022
  - Thesis: Pavlovian bias test/retest reliability.

- **Allameh Helli 1 High School** — Tehran, Iran
  Diploma in Mathematics and Physics Discipline — 2013 - 2017

  Affiliated with the National Organization for the Development of Exceptional Talents (NODET)

Research Experience

- **Ludwig-Maximilians-Universität München - Crowd Cognition Group** — Remote
  Research Assistant — June 2021 - Present
  Co-supervisors: Dr. Bahador Bahrami, Dr. Ophelia Deroy
  - My research was focused on interindividual difference in learning to act or avoid. For now, I'm studying how people's behavior changes in groups.
  - Analyzed the behavioral data using linear models such as ANOVA and mixed-model regression, reinfocement learning models such as Go/NoGo and 2-step task, planning-depth models such as heuristic models and decision trees.
  - Collected and analyzed eye gaze data using pupil invisible eye tracker.
  - Implemented online experiments using JsPsych and collected data using Amazon Mturk.

- **University of Tehran - BTCS lab** — Tehran, Iran
  Undergraduate Research Assistant — Summer 2019
  Supervisor: Dr. M.R. Abolghasemi Dahaqani
  - Attempted to replicate "Preconscious Prediction of a Driver's Decision Using Intracranial Recordings"
  - Learned about using machine learning algorithms (such as SVM) for analyzing EEG data

Publications

- **Saeedpour, S.**, Miandari, M., Deroy, O., Bahrami, B. (2023). Interindividual differences in Pavlovian influence on learning are consistent, Accepted at Royal Society Open Science

- Navidi, P., **Saeedpour, S.**, Miandari, M., Ershadmanesh, S., Bahrami, B. (2023). Prosocial learning: Model-based or model-free?, PLoS One, doi.org/10.1371/journal.pone.0287563

Honors and Awards

- **The Best Undergraduate Project Award** ECE school, University of Tehran — 2022

- **ICPC world finalist (International Collegiate Programming Contest)** Dhaka, Bangladesh — Nov 2022
  Coached the team "aFunnyRandomPhrase" from the Univesity of Tehran

- **Silver Medalist** in the 12th National Olympiad of Astronomy and Astrophysics (NOAA) — 2016
  Silver medals are awarded to about 10 people selected after a year of competition among over 10000 students.

- **4th & 11th Team** in the ACM ICPC regional contest — Respectively 2018, 2017

- **National Organization for Development of Exceptional Talents** (NODET) member — 2010 − 2017

Work Experience

- **Venture Capital Team - Khalgh Servat Sarzamin Parseh**   Tehran, Iran
  Investment Analyst   Aug. 2022 - present
    - Analyzing early-stage startups using known frameworks such as pain points, and JTBD (job to be done).
    - Identifying candidates for investment within the allotted fund.

- **YUZ Games Studio - Cafe Bazaar**   Tehran, Iran
  Game Data Analyst   Apr. 2021 - Aug. 2022
    - Using statistical and machine learning approaches to analyze YOYO games' users' behavior in the game and optimizing various aspects of the game and levels to make for better and better user experience.
    - Cafe Bazaar the most popular Android application store in Iran, with more than 40 million users.

- **People Analytics Team - Cafe Bazaar**   Tehran, Iran
  Human Resources Data Analyst   Jun. 2019 - Apr. 2021
    - Using data-driven approaches to analyze employees performance and other related metrics to help the company make better decisions for creating a more productive work environment.

- **Allame Helli 1 High school**   Summer 2017 - Spring 2019
  Olympiad in Astronomy Instructor
    - Taught Data Analysis methods to students preparing for the National Olympiad in Astronomy & Astrophysics (NOAA).

Teaching Experience

- **Teaching Assistant, ECE Department**
  University of Tehran
    - **Machine Learning**: Instructors: Prof. Nadjar Araabi & Dr. Abolghasemi Dahaqani   Fall 2020
    - **Engineering Probability and Statistics**: Instructor: Dr. Behnam Bahrak   Spring 2020
    - **Engineering Probability and Statistics**: Instructor: Dr. Abolghasemi Dahaqani   Fall 2019

Leadership and Membership Experience

- **Executive Director and Scientific Staff**   Winter 2019
  University of Tehran
    - Director at CNCS 2019, Cognitive Neuroscience Competiton for Students
    - Gathered speakers on different topics in cognitive science, Managed a team to execute the event.

- **Performing Arts Club Vice Chair**   2019
  University of Tehran
    - Managed the activities of Theater groups, shows and performances, workshops and events around Performing Arts in University of Tehran.

Skills

- **Programming**: Python, R, MATLAB, Sql, C++, JavaScript, Bash

- **Statistics & Modelling**: Statistical Tests, GLM models, Reinfocement Learning models

- **Online Experiment Design**: jsPsych, PsychoToolBox, Cognition.run

- **Data Analytics Frameworks**: Pandas, Statsmodels, NumPy, Scikit-Learn

- **Visualization Frameworks**: Matplotlib, Seaborn, Plotly, ggplot2

- **Web Development & Database**: HTML, CSS, Node.js, Docker, PostgreSQL

- **Miscellaneous**: Git, Jupyter Notebook, Linux, Windows, LaTeX, Microsoft Office (Word, Excel, Powerpoint)