

# Sepehr Saeedpour

Prospective M.Sc. Neuroscience Student at GSN

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## EDUCATION

- **University of Tehran - School of Electrical and Computer Engineering** Tehran, Iran  
B.Sc. in Electrical Engineering 2017 - 2022
  - Thesis: Interindividual differences in Learning to Act or Avoid.
  - Recognized with the Best Undergraduate Thesis Award in ECE school.
- **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, Prof. Dr. Ophelia Deroy**
  - Working on a project focused on eye gaze tracking in [interactive environments](#).
    - Developing real-time eye-tracking software based on the [Pupil Invisible API](#).
    - Analyzing eye gaze data, and visualizing results through heatmaps, scanpaths, and saliency maps
  - Supervising a research project investigating Pavlovian bias in group settings.
    - Performed the literature review, formulated and [pre-registered the hypothesis](#).
  - Conducted a comprehensive [pre-registered research](#) on Pavlovian influence on instrumental learning.
    - Developed a Go/NoGo experiment using jsPsych ([Link](#))
    - Collected data through Amazon Mturk.
    - Conducted statistical analyses and utilized reinforcement learning models to explain subjects' behavior.
    - Wrote the manuscript, submitted it to a peer-reviewed journal and [addressed reviewers' comments](#).
  - Contributed to a project on goal-oriented and habitual decision-making in prosocial settings
    - Analyzed subjects' data and implemented RL models to estimate model-based and model-free parameters.
- **University of Tehran - NBIC Lab** Tehran, Iran  
Undergraduate Research Assistant Summer 2019  
**Supervisor: Dr. M.R. Abolghasemi Dahaqani**
  - Focused on analyzing EEG data. The aim was to replicate the findings of this article ([Link](#)).

## PUBLICATIONS

- **Saeedpour, S.**, Miandari, M., Deroy, O., Bahrami, B. (2023). Interindividual differences in Pavlovian influence on learning are consistent, Royal Society Open Science, [doi.org/10.1098/rsos.230447](https://doi.org/10.1098/rsos.230447)
- 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](https://doi.org/10.1371/journal.pone.0287563)

## HONORS AND AWARDS

- **The Best Undergraduate Thesis Award.** ECE school, University of Tehran. ([Link](#)) 2022
- **International Collegiate Programming Contest (ICPC) world finalist.** Bangladesh. ([Link](#)) Nov 2022  
Coached the team "aFunnyRandomPhrase" from the University of Tehran
- **Silver Medalist** in the 12<sup>th</sup> 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

## WORK EXPERIENCE

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- **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
  - Employed statistical and machine learning approaches to analyze YUZ games' users' behavior in the game and optimizing various aspects of the game and levels to improve gamers' experience.
- **People Analytics Team - Cafe Bazaar** Tehran, Iran  
Human Resources Data Analyst Jun. 2019 - Apr. 2021
  - Utilized data-driven approaches to analyze employees' profiles to optimise work conditions.

## TEACHING EXPERIENCE

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- **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
- **Instructor, Astronomy & Astrophysics Olympiad** 2017 - 2019  
Allame Helli 1 High school
  - Taught Data Analysis methods (e.g. linear models, clustering) to students preparing for the National Olympiad in Astronomy & Astrophysics (NOAA).

## ORGANIZATIONAL EXPERIENCE

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

## TECHNICAL SKILLS

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- **Programming:** Python, R, MATLAB, JavaScript, Sql, C++, Bash
- **Computational:** RL & ML algorithms, Model fitting/selection, Statistical Ineference
- **Software:** jsPsych, PsychoToolBox, Pandas, Statsmodels, NumPy, Scikit-Learn, TensorFlow, Keras
- **Miscellaneous:** Git, Jupyter Notebook, Linux, Windows, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office (Word, Excel, Powerpoint)

## REFERENCES

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- **Dr. Bahador Bahrami** - [bahador.bahrami@psy.lmu.de](mailto:bahador.bahrami@psy.lmu.de)  
Senior Research Scientist, Faculty of Psychology and Educational Sciences, Ludwig Maximilian University, Munich
- **Dr. Mohammad-Reza Abolghasemi-Dehaqani** - [dehaqani@ut.ac.ir](mailto:dehaqani@ut.ac.ir)  
Assistant Professor, School of Electrical and Computer Engineering, University of Tehran, Iran
- **Prof. Dr. Ophelia Deroy** - [ophelia.deroy@lrz.uni-muenchen.de](mailto:ophelia.deroy@lrz.uni-muenchen.de)  
Chair for Philosophy of Mind and Neuroscience, Ludwig Maximilian University, Munich