

Sarinasadat Hosseini

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LinkedIn/sarina

EDUCATION

Ph.D in Computer Science , Tokyo Institute of Technology	2019/9-2022/9
M.S. in Computer Science , Tokyo Institute of Technology	2018/4-2019/9
B.S. in Electrical Engineering , Shahid Beheshti University	2012/9-2016/2

RESEARCH

Research Assistant , EISESIV, Tokyo Institute of Technology Supervised by Yoshihiro Miyake and Takayuki Nozawa	2019/9–2022/9
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- Designed and developed an avatar-based job interview support system to reduce social anxiety and enhance candidate performance.
 - Created virtual interviewers using Unreal Engine, MetaHuman Creator, Live Link Face, and automated them using Unity, HTML, CSS and JavaScript.
 - Conducted behavioral analysis using Python libraries including OpenFace, Parselmouth, NeuroKit2, and NLTK.
- Developed a Google Meet extension that provided real-time feedback based on participants' verbal activity to improve communication in remote meetings.
 - Built the system using Python (OpenCV, Pandas, NumPy) and implemented active speaker detection with Scikit-learn and TensorFlow.
 - Conducted data analysis using Python (NumPy, Matplotlib) and R.
- Investigated dynamic smile variations in conversations to understand the role of different smile types in interpersonal communication.
 - Extracted facial features using Python and MediaPipe; classified smiles using SVM.

Research Student , Tokyo Institute of Technology Supervised by Yoshihiro Miyake and Takayuki Nozawa	2017/4–2019/9
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- Explored the effects of music as a meditative tool on emotion, communication, and collective creativity using fNIRS-based brain hyperscanning and body movement analysis.
 - Analyzed brain signals and performed hyperscanning in MATLAB; conducted data analysis using Python, SPSS, and R.

Research Intern , Tehran Province Water and Wastewater	2015/6-2015/9
• Developed an alarm system to monitor and regulate water purity levels.	

JOB

EXPERIENCES

Data Scientist , Panasonic corporation	2022/10-present
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- Developed a reporting system using Palantir, Power BI and Python to generate insightful IoT analytics.
- Designed and developed a manufacturing process management system using Microsoft 365 products and Python.
- Planned and supported the deployment of an LMS365-based e-learning system; tracked learners' progress and exam results using BI dashboards, SQL and Python for analysis.
- Contributed to IT requirements planning during a merger and acquisition project.
- Trained and mentored interns in data extraction, analysis, and report generation.

English Instructor , ESC	2018/8-2021/8
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- Taught English to Japanese junior high school students.

SELECTED
PUBLICATIONS

[1] Avatar-Based Feedback in Job Interview Training Impacts Action Identities and Anxiety. **S. Hosseini**, J. Quan, X. Deng, Y. Miyake, T. Nozawa. In: *IEEE Transactions on Affective Computing*, 2024

[2] Unravelling the relation between altruistic cooperativeness trait, smiles, and cooperation: a mediation analysis. **X. Deng**, S. Hosseini, Y. Miyake, T. Nozawa. In: *Frontiers in Psychology*, 2023

[3] Encouragement of Turn-Taking by Real-Time Feedback Impacts Creative Idea Generation in Dyads. **S. Hosseini**, X. Deng, Y. Miyake, T. Nozawa. In: *IEEE Access*, 2021

[4] Head Movement Synchrony and Idea Generation Interference – Investigating Background Music Effects on Group Creativity. **S. Hosseini**, X. Deng, Y. Miyake, T. Nozawa. In: *Frontiers in Psychology*, 2019

[5] Combined Effects of Background Music and Nonverbal Synchrony Measures on Group Creativity—A Multiple Regression Approach—. **S. Hosseini**, Y. Miyake, T. Nozawa. In: *2019 IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 2019

[6] Music Valence and Genre Influence Group Creativity. **S. Hosseini**, Y. Hattori, Y. Miyake, T. Nozawa. In: *HCII 2019, Best paper award*, 2019

SKILLS AND
LANGUAGES

Data analysis: Python (NumPy, Pandas, TensorFlow, Keras, OpenFace, PySpark), MATLAB, R, SPSS, MySQL, Power Bi, Tableau

Cloud computing services: AWS, Salesforce

Object-oriented Languages: C#, Java

Web development: HTML, CSS, JavaScript

Software: Unreal Engine, Unity, Blender, ELAN

Languages: English (Advanced), Japanese (Advanced), French (Basic), Korean (Basic), Persian (Native)

AWARDS

HVAC Golden Award 2025/5
Panasonic

Japanese Government (MEXT) Scholarship 2017/4-2022/9
1800000 Yen/year

Selected to present the Computer Science department’s students during the graduation ceremony 2019/9
Tokyo Institute of Technology

Rank 1st out of 130 students in the Department of Control System and Engineering 2015
Shahid Beheshti University