

Sarinasadat Hosseini

hosseini.sarinasadat@gmail.com

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
JOB EXPERIENCES	Solution Architect/Data Analyst, Panasonic corporation	2022/10-present
	<ul style="list-style-type: none">• Developed a reporting system using Power BI and Python to generate insightful IoT analytics.• Designed and developed a manufacturing process management system using Microsoft 365 products and Python, automating schedules and approval workflows to reduce errors and manual effort.• Planned and supported the deployment of an LMS365-based e-learning system to enhance product knowledge; tracked learners' progress and exam results using BI dashboards, SQL and Python for advanced 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
	<ul style="list-style-type: none">• Taught English to Japanese junior high school students.	
RESEARCH	Research Assistant, EISESIV, Tokyo Institute of Technology	2019/9–2022/9
	Supervised by Yoshihiro Miyake and Takayuki Nozawa	
	<ul style="list-style-type: none">• Designed and developed an avatar-based job interview support system to reduce social anxiety and enhance candidate performance.<ul style="list-style-type: none">– 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.<ul style="list-style-type: none">– 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.<ul style="list-style-type: none">– Extracted facial features using Python and MediaPipe; classified smiles using SVM.	
	Research Student, Tokyo Institute of Technology	2017/4–2019/9
	Supervised by Yoshihiro Miyake and Takayuki Nozawa	
	<ul style="list-style-type: none">• Explored the effects of music as a meditative tool on emotion, communication, and collective creativity using fNIRS-based brain hyperscanning and body movement analysis.<ul style="list-style-type: none">– 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
	<ul style="list-style-type: none">• Developed an alarm system to monitor and regulate water purity levels.	

SELECTED PUBLICATIONS	<p>[1] Avatar-Based Feedback in Job Interview Training Impacts Action Identities and Anxiety. S. Hosseini, J. Quan, X. Deng, Y. Miyake, T. Nozawa. In: <i>IEEE Transactions on Affective Computing</i>, 2024</p> <p>[2] Unravelling the relation between altruistic cooperativeness trait, smiles, and cooperation: a mediation analysis. X. Deng, S. Hosseini, Y. Miyake, T. Nozawa. In: <i>frontier in Psychology</i>, 2023</p> <p>[3] Encouragement of Turn-Taking by Real-Time Feedback Impacts Creative Idea Generation in Dyads. S. Hosseini, X. Deng, Y. Miyake, T. Nozawa. In: <i>IEEE Access</i>, 2021</p> <p>[4] Head Movement Synchrony and Idea Generation Interference – Investigating Background Music Effects on Group Creativity. S. Hosseini, X. Deng, Y. Miyake, T. Nozawa. In: <i>frontier in Psychology</i>, 2019</p> <p>[5] Combined Effects of Background Music and Nonverbal Synchrony Measures on Group Creativity—A Multiple Regression Approach—. S. Hosseini, Y. Miyake, T. Nozawa. In: <i>2019 IEEE International Conference on Systems, Man and Cybernetics (SMC)</i>, 2019</p> <p>[6] Music Valence and Genre Influence Group Creativity. S. Hosseini, Y. Hattori, Y. Miyake, T. Nozawa. In: <i>HCII 2019</i>, Best paper award, 2019</p>
LANGUAGES	English (<i>Advanced</i>), Japanese (<i>Advanced</i>), French (<i>Basic</i>), Korean (<i>Basic</i>), Persian (<i>Native</i>)
SKILLS	<p>Data analysis: Python (NumPy, Pandas, TensorFlow, Keras, OpenFace, PySpark), MATLAB, R, SPSS, MySQL, Power Bi, Tableau</p> <p>Cloud computing services: AWS, Salesforce</p> <p>Object-oriented Languages: C#, Java</p> <p>Web development: HTML, CSS, JavaScript</p> <p>Software: Unreal Engine, Unity, Blender, ELAN</p>
AWARDS	<p>Japanese Government (MEXT) Scholarship 2017/4-2022/9 1800000 Yen/year.</p> <p>Selected to present the Computer Science department’s students during the graduation ceremony. 2019/9 Tokyo Institute of Technology</p> <p>Rank 1st out of 130 students in the Department of Control System and Engineering. 2015 Shahid Beheshti University</p>