Setareh Nasihati Gilani

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SUMMARY
◇ I am a computer scientist with a strong theoretical and practical background in **Artificial Intelligence, Natural Language Processing, Dialogue Systems, and Human Computer Interaction**. I have honed my skills during tenure at several startups and larger companies such as Google, Motorola Solutions, and PayPal.

EDUCATION
◇ **University of Southern California**, (Los Angeles, CA) Ph.D. in Computer Science   2023
Advisor: David Traum.

◇ **University of Southern California**, (Los Angeles, CA) M.Sc. in Computer Science   2018

◇ **Sharif University of Technology**, (Tehran, Iran) B.Sc. in Computer Engineering   2014

TECHNICAL EXPERTISE
◇ *Programming languages:* Python, Java, C++, Prolog, LISP, MATLAB

◇ *Machine Learning/Deep Learning:* Torch, TensorFlow, Keras, HuggingFace, NLTK, Spacy

◇ *Platforms:* PSI, Android, Azure, AWS, GCP

WORK EXPERIENCE
◇ **Motorola Solutions Inc, Software Engineer Co-op**. Improving the intercom Voice-AI performance by training custom speech to text models (June 2023 - Present).

◇ **Google, Research Intern**. Developed a preference-based conversational recommender system for Google Assistant. (Fall 2020).

◇ **PayPal, Software Engineering Intern**. Developed an email-rerouting system to improve customer service's operation efficiency using text analytics and machine learning (Summer 2017).

◇ **PayPal, Software Engineering Intern**. Developed an internally facing metadata resource management chatbot for engineers to expedite information gaining process (Summer 2016).

◇ **Natural Language Dialogue Group at ICT, Graduate Research Assistant**. Developed multiple interactive dialogue systems using multimodal inference of real-time sensory data (Fall 2015-2023).

SELECT PUBLICATIONS
◇ **Multimodal Prediction of Users Performance in High-Stress Dialogue Interactions**
S.N. Gilani, K. Pollard, D. Traum. In *ACM International Conference on Multimodal Interaction.* (ICMI 2023)

◇ **Can a Virtual Human Facilitate Learning in a Young Baby?**
S.N. Gilani, D. Traum, R. Sortino, G. Gallagher, K. Aaron-lozano, C. Padilla, L. Petitto. In International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2019).

◇ **Multimodal Dialogue Management for Multiparty Interaction with Infants**
S.N. Gilani, D. Traum, A. Merla, E. Hee, Z. Walker, B. Manini, G. Gallagher, L. Petitto. In ACM International Conference on Multimodal Interaction (ICMI 2018 - **Best Paper Award**)

◇ **Teaching Language to Deaf Infants with a Robot and a Virtual Human**
B. Scassellati, J. Brawer, K. Tsui, **S.N. Gilani**, M. Malzkuhn, B. Manini, A. Stone, G. Kartheiser, A. Merla, A. Shapiro, D. Traum, & L. Petitto. In ACM Conference on Human Factors in Computing Systems (SIGCHI 2018 - Nominated for Best Paper Award).

HONORS AND AWARDS
◇ **Best Papaer Award** at ACM International Conference on Multimodal Interaction **ICMI 2018**

◇ Received **honorable mention** for USC Registration Application contest by designing a multi-platform mobile application with innovative ways to register for courses.

◇ **Gifted Student Award.** Entrance exam waiver for graduate program at Sharif University.

◇ **Top 0.0001** in the nationwide university entrance exam among 300,000 participants, Iran, 2010.

◇ Recipient of the **grant for undergraduate studies** from Iranian National Elites Foundation, for outstanding academic success (2010-2014).

◇ Member of National Organization for Development of Exceptional Talents (NODET).

PROFESSIONAL SERVICES
◇ **President** of the USC Iranian Graduate Student Association (2017-2019).

◇ **Member** of the Student Scientific Chapter (SSC) of CE department in Sharif University(2012).

◇ **Technical Staff**, 13th ACM/ICPC Asia Region (2012).