

SETAREH NASIHATI GILANI

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- RESEARCH INTERESTS
- ◇ **Natural Language Dialogue Systems**
 - ◇ **Multimodal Dialogue Management**
 - ◇ **Multimodal Human Computer Interaction**

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- EDUCATION
- ◇ **Ph.D. in Computer Science** Aug. 2014 – Present
Institute for Creative Technologies
University of Southern California (USC), Los Angeles, CA, United States
SUPERVISOR: David Traum
 - ◇ **Master's Degree in Computer Science** Aug. 2014 – Dec. 2018
Department of Computer Science
University of Southern California (USC), Los Angeles, CA, United States
 - ◇ **B.Sc. Degree in Computer Engineering** Sept. 2010 – July 2014
Department of Computer Engineering
Sharif University of Technology, Tehran, Tehran, Iran

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- PUBLICATIONS
- ◇ **Multimodal Learning for Identifying Opportunities for Empathetic Responses** **ICMI'19**
Leili Tavabi, Kalin Stefanov, Setareh Nasihati Gilani, David Traum, Mohammad Soleymani. To Appear in *ACM International Conference on Multimodal Interaction*, Suzhou, Jiangsu, China, Oct. 2019.
 - ◇ **Can a Signing Virtual Human Engage a Baby's Attention?** **IWA'19**
Setareh Nasihati Gilani, David Traum, Rachel Sortino, Grady Gallagher, Kailyn Aaron-Lozano, Cryss Padilla, Ari Shapiro, Jason Lambertson, Laura-Ann Petitto. In *International Conference on Autonomous Agents & Multiagent Systems*, Paris, France, July 2019. To Appear.
 - ◇ **Can a Virtual Human Facilitate Language Learning in a Young Baby?** **AAMAS'19**
Setareh Nasihati Gilani, David Traum, Rachel Sortino, Grady Gallagher, Kailyn Aaron-Lozano, Cryss Padilla, Ari Shapiro, Jason Lambertson, Laura-Ann Petitto. In *International Conference on Autonomous Agents and Multiagent Systems*, Montréal, Canada, May 2019.
 - ◇ **Developing a Virtual Reality Wildfire Simulation to Analyze Human Communication and Interaction with a Robotic Swarm During Emergencies** **HLTCEM'19**
Patricia Chaffey, Ron Artstei, Kallirroi Georgila, Kimberly A. Pollardy, Setareh Nasihati Gilani, David M. Krum, David Nelson, Kevin Huynh, Alesia Gainer, Seyed Hossein Alavi, Rhys Yahata, David Traum
In *Workshop on Human Language Technologies in Crisis and Emergency Management*, Poznań, Poland, May 2019.
 - ◇ **Hearing Babies Respond to Language's Patterning and Social Contingency with a Signing Avatar: Acquisition Insights** **SRCD'19**
Laura-Ann Petitto, Rachel Sortino, Kailyn Aaron-Lozano, Grady Gallagher, Setareh Nasihati Gilani, David Traum, Arcangelo Merla, Chiara Filippini, Cryss Padilla. In *Society for Research in Child Development*, Baltimore, Maryland, United States, Apr. 2019.

- ◇ **Multimodal Dialogue Management for Multiparty Interaction with Infants** **ICMI'18**
Setareh Nasihati Gilani, David Traum, Arcangelo Merla, Eugenia Hee, Zoey Walker, Barbara Manini, Grady Gallagher, Laura-Ann Petitto. In *ACM International Conference on Multimodal Interaction*, Boulder, Colorado, United States, Oct. 2018. **Best Paper Award**.
- ◇ **Teaching Language to Deaf Infants with a Robot and a Virtual Human** **CHI'18**
Brian Scassellati, Jake Brawer, Katherine Tsui, Setareh Nasihati Gilani, Melissa Malzkuhn, Barbara Manini, Adam Stone, Geo Kartheiser, Arcangelo Merla, Ari Shapiro, David Traum, Laura-Ann Petitto. In *ACM Conference on Human Factors in Computing Systems*, Montréal, Canada, Apr. 2018.
- ◇ **Artificial Intelligence to Predict Intimate Partner Violence Perpetration** **Cambridge Press**
Robin Petering, Mee-Young Um, Nazanin Alipourfard, Nazgol Tavabi, Rajni Kumari, Setareh Nasihati Gilani. Chapter in *Artificial Intelligence and Social Work*, Cambridge University Press.
- ◇ **What Kind of Stories Should a Virtual Human Swap?** **IVA'16**
Setareh Nasihati Gilani, Kraig Sheetz, Gale Lucas, David Traum. In *International Conference on Intelligent Virtual Agents*, Los Angeles, California, United States, Sept. 2016.
- ◇ **What Kind of Stories Should a Virtual Human Swap?** **AAMAS'16**
Setareh Nasihati Gilani, Kraig Sheetz, Gale Lucas, David Traum. In *International Conference on Autonomous Agents and Multiagent Systems*, Singapore, May 2016.

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| HONORS AND AWARDS | <ul style="list-style-type: none"> ◇ Best Paper Award October 2018
In ACM International Conference on Multimodal Interaction (ICMI 2018). ◇ MS Research Award November 2018
Microsoft Research External Funding Department
For Contributing to Platform for Situated Intelligence (PSI). ◇ Honorable Mention February 2015
In USC Registration Application contest for designing a multi-platform mobile application with innovative ways for course registration. ◇ Gifted Student Award July 2014
Sharif University of Technology
And acceptance to graduate program without participating in the nationwide entrance exam. ◇ Ranked 37th (Top 0.0001) July 2010
In the nationwide university entrance exam (Konkour), Physics and Mathematics Discipline, among more than 300,000 participants, Iran. ◇ Grant for Undergraduate Studies 2010-2014
Iranian National Elites Foundation, for outstanding academic success. ◇ Membership 2006-2010
Member of National Organization for Development of Exceptional Talents (NODET), Iran. |
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| RESEARCH EXPERIENCE | <ul style="list-style-type: none"> ◇ Institute for Creative Technologies, Research Assistant Spring 2015 - Present
University of Southern California, Los Angeles, California, United States.
PROJECT DESCRIPTION: Focused on multimodal feedback generation in dialogue systems using inference of real-time sensory data
SUPERVISOR: David Traum |
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- ◇ **Information Science Institute, Research Assistant** Fall 2014
 University of Southern California, Los Angeles, California, United States.
 PROJECT DESCRIPTION: Worked on fault-tolerant systems, distributed systems and establishing resilience in them.
 SUPERVISOR: Pedro Diniz
- ◇ **Performance and Dependability Lab, Research Assistant** 2013-July 2014
 Department of Computer Engineering, Sharif University, Tehran, Tehran, Iran
 PROJECT DESCRIPTION: Worked on Named Data Networks
 SUPERVISOR: Ali Movaghar

WORK
EXPERIENCE

- ◇ **PayPal Inc, Software Engineering Intern** Summer 2017
 San Jose, California, United States.
 PROJECT DESCRIPTION: Developed an email-routing system to improve customer service's operation efficiency using text analytics and machine learning.
 SUPERVISOR: Ravi Retineni
- ◇ **PayPal Inc, Software Engineering Intern** Summer 2016
 San Jose, California, United States.
 PROJECT DESCRIPTION: Developed an internally facing metadata resource management conversational agent for engineers to expedite information gaining process.
 SUPERVISOR: Gaoyuan Wang
- ◇ **Beep Comapany, Product Specialist and Mobile Application Developer** Summer 2013
 Tehran, Tehran, Iran.
 PROJECT DESCRIPTION: Co-founded a mobile application start-up; a trivia game based on Persian songs. Beep (Rahnema) is one of the major VAS providers and tech companies in Iran.
 SUPERVISOR: Farid Khareshi

TEACHING
EXPERIENCE

- ◇ **Teaching Assistant, University of Southern California**
 - "Natural Language Dilaogue Systems" Course Fall 2018
 - "Foundations of Artificial Intelligence" Course Spring 2015, Summer 2015, Fall 2015
 - "Compiler Design" Course Spring 2015
- ◇ **Teaching Assistant, Sharif University of Technology**
 - "Data Structures and Introduction to Algorithm" Course Fall 2012, Fall 2013
 - "Computer Architecture" Course Spring 2013

PROFESSIONAL
SERVICES

- ◇ **Conference Peer Reviewer**
 - *The 18th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'19).*
 - *The 57th Annual Meeting of the Association for Computational Linguistics (ACL'19).*
 - *The 10th International Workshop on Spoken Dialogue Systems Technology (IWSDS'19).*
 - *The 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT'19).*

· *The 32nd International The Florida Artificial Intelligence Research Society Conference (FLAIRS'19).*

- ◇ **Python Workshop Leader and Mentor**
Tutorial Instructor in AIHacks: Southern California's All-Female High School Hackathon 2019
- ◇ **Student Volunteer**
The 17th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL'16)
- ◇ **Technical Staff**
In 13th ACM/ICPC Asia Region 2012

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| UNIVERSITY SERVICES | <ul style="list-style-type: none">◇ President 2017-Present
USC Iranian Graduate Student Association (IGSA)◇ Board Member 2015-2017
USC Iranian Graduate Student Association (IGSA)◇ Board Member 2012
Student Scientific Chapter (SSC) of Computer Engineering Department in Sharif University |
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| TECHNICAL EXPERTISE | <ul style="list-style-type: none">◇ Programming Languages: Python, Java, C/C++, SQL◇ Web Programming Languages: HTML, CSS, JavaScript, PHP◇ Platforms: PSI, Android, Google Cloud API, AWS◇ Development Environments : Visual Studio, IntelliJ, Android Studio, Pycharm◇ Operating Systems: Windoes, Ubuntu, Mac OS◇ Mobile Platforms: Android, iOS |
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| PRESS COVERAGE | <ul style="list-style-type: none">◇ USC Viterbi, May 2019
Robotics and American Sign Language◇ Wired Magazine, December 2017
The Adorable Robot That's Helping Deaf Children Communicate◇ NewsWeek, October 2017
Could a Robot Help Your Child Learn a Language?◇ Axios, February 2018
Artificial Intelligence is helping babies develop language◇ HearingLikeMe website, January 2018
Could a robot help deaf children communicate in the near future? |
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| LANGUAGES | <ul style="list-style-type: none">◇ English (Fluent)◇ Farsi (Native) |
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