

PhD candidate · Human-Robot Interaction

KTH, Royal Institute of Technology, School of Electrical Engineering and Computer Science, Division of Robotics, Perception and Learning, Lindstedtsvägen 24, 4th floor, 11428 Stockholm, Sweden

■ sgillet@kth.se | https://sarahgillet.com

Research interest: Human-Robot Interaction, Robots in Groups, Multiparty Interaction, Multimodal Interaction

Employment & Education _____

KTH, Royal Institute of Technology

Stockholm, Sweden

PhD student in Robotics

09/2018 - PRESENT

- Thesis title: Computational Approaches to Interaction-Shaping Robotics
- Supervisors: Prof Iolanda Leite and Prof Hedvig Kjellström
- Expected graduation: September 2024

Yale University

New Haven, USA

VISITING ASSISTANT IN RESEARCH

• Advisor: Marynel Vázquez

10/2021 - 05/2022

Corporate Research, KUKA Roboter GmbH

Augsburg, Germany

SOFTWARE DEVELOPER FOR MOBILE ROBOTICS

07/2015 - 08/2018

- Research projects:
 - RobDream and REFILLS projects funded under Horizon 2020 of the European Union
 - Hybr-IT funded by the German Federal Ministry of Education and Research (BMBF)

TU Dortmund Dortmund, Germany

BSC & MSc in Computer Science, Minor: Robotics

10/2009 - 05/2015

Scholarship & Awards _____

2023	Outstanding reviewer recognition, ACM/IEEE International Conference on Human-Robot Interaction (HRI)	Stockholm
2022	DAAD Ainet fellow, Selected to participate in the DAAD Postdoc-NeT-AI 3/2022 – AI and Robotics	
2021	Best User Studies Paper Award, The 16th ACM/IEEE International Conference on Human-Robot Interaction	Boulder, Co,
	best oser studies raper Award, the 10th AcM/IEEE international Conference on Human-Robot interaction	
2020	Best Late Breaking Report Award, Honorable Mentions, The 15th ACM/IEEE International Conference on	Cambridge,
	Human-Robot Interaction	United Kingdom
2016	Hans-Uhde Award for an excellent master thesis in engineering sciences, Hans-Uhde Foundation,	Dortmund,
2016	(Original title: Hans-Uhde-Preis für herausragende Abschlussarbeiten in den Ingenieurwissenschaften)	Germany
2013	2013 Best Graduation Award, TU Dortmund , (Original title: "Jahrgangsbestenpreis 2013 der Gesellschaft	Dortmund,
2013	der Freunde der Technischen Universität Dortmund e.V. auf Vorschlag der Fakultät für Informatik")	Germany
2012 -	Scholarship, German National Academic Foundation	
2014		
2010 -	Scholarship , Industry-supported scholarship awarded yearly by the department of computer science (NRW	
2012	Stipendium, Deutschlandstipendium)	

Awarded Grants

- 2022 **Travel grant**, Signeuls stiftelse, providing 25000SEK (~2500\$) to attend CORL 2022
- 2022 **Travel grant**, Signeuls stiftelse, providing 12600SEK (~1500\$) to attend RO-MAN 2022

Publications

BOOK CHAPTERS

Multiparty Interaction Between Humans and Socially Interactive Agents

Sarah Gillet, Marynel Vázquez, Christopher Peters, Fangkai Yang, Iolanda Leite

The Handbook on Socially Interactive Agents: 20 Years of Research on Embodied Conversational Agents, Intelligent Virtual Agents, and Social Robotics Volume 2: Interactivity, Platforms, Application, 2022, New York, NY, USA

FEBRUARY 12, 2024 SARAH GILLET · CURRICULUM VITAE

JOURNAL ARTICLES (PEER-REVIEWED)

Interaction-Shaping Robotics: Robots that Influence Interactions between Other Agents

Sarah Gillet, Marynel Vázguez, Sean Andrist, Iolanda Leite, Sarah Sebo

J. Hum.-Robot Interact. (Feb. 2024). Association for Computing Machinery, 2024

Robot-Mediated Inclusive Processes in Groups of Children: From Gaze Aversion to Mutual Smiling Gaze Sylvaine Tuncer, **Sarah Gillet**, Iolanda Leite

Frontiers in Robotics and AI 9 (2022). 2022

The impact of adding perspective-taking to spatial referencing during human-robot interaction

Fethiye Irmak Doğan, Sarah Gillet, Elizabeth J. Carter, Iolanda Leite

Robotics and Autonomous Systems 134 (2020) p. 103654. 2020

CONFERENCE PROCEEDINGS (PEER-REVIEWED)

Verbally Soliciting Human Feedback in Continuous Human-Robot Collaboration: Effects of the Framing and Timing of Reminders Kate Candon, Helen Zhou, **Sarah Gillet**, Marynel Vázquez

Proceedings of the 2023 ACM/IEEE International Conference on Human-Robot Interaction, 2023, New York, NY, USA

Robot Duck Debugging: Can Attentive Listening Improve Problem Solving?

Maria Teresa Parreira, Sarah Gillet, Iolanda Leite

Proceedings of the 25th International Conference on Multimodal Interaction, 2023, Paris, France

How Did We Miss This? A Case Study on Unintended Biases in Robot Social Behavior

Maria Teresa Parreira, Sarah Gillet, Katie Winkle, Iolanda Leite

Companion of the 2023 ACM/IEEE International Conference on Human-Robot Interaction, 2023, New York, NY, USA

Learning Gaze Behaviors for Balancing Participation in Group Human-Robot Interactions

Sarah Gillet, Maria Teresa Parreira, Marynel Vázquez, Iolanda Leite

Proceedings of the 2022 ACM/IEEE International Conference on Human-Robot Interaction, 2022, Sapporo, Hokkaido, Japan

Ice-Breakers, Turn-Takers and Fun-Makers: Exploring Robots for Groups with Teenagers

Sarah Gillet, Katie Winkle, Giulia Belgiovine, Iolanda Leite

2022 31st IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), 2022

Autonomous Robot Behaviors for Shaping Group Dynamics

Sarah Gillet

Companion of the 2021 ACM/IEEE International Conference on Human-Robot Interaction, 2021, Boulder, CO, USA

Robot Gaze Can Mediate Participation Imbalance in Groups with Different Skill Levels

Sarah Gillet*, Ronald Cumbal*, André Pereira, José Lopes, Olov Engwall, Iolanda Leite

Proceedings of the 2021 ACM/IEEE International Conference on Human-Robot Interaction, 2021, New York, NY, USA

A Robot Mediated Music Mixing Activity for Promoting Collaboration among Children

Sarah Gillet, Iolanda Leite

 $Companion\ of\ the\ 2020\ ACM/IEEE\ International\ Conference\ on\ Human-Robot\ Interaction,\ 2020,\ Cambridge,\ United\ Kingdom\ ACM/IEEE\ International\ Conference\ on\ Human-Robot\ Interaction,\ 2020,\ Cambridge,\ United\ Kingdom\ ACM/IEEE\ International\ Conference\ on\ Human-Robot\ Interaction,\ 2020,\ Cambridge,\ United\ Kingdom\ ACM/IEEE\ International\ Conference\ on\ Human-Robot\ Interaction,\ 2020,\ Cambridge,\ United\ Kingdom\ ACM/IEEE\ International\ Conference\ on\ Human-Robot\ Interaction,\ 2020,\ Cambridge,\ United\ Kingdom\ ACM/IEEE\ International\ Conference\ on\ Human-Robot\ Interaction,\ 2020,\ Cambridge,\ United\ Kingdom\ ACM/IEEE\ International\ Conference\ On\ ACM/IEEE\ International\ Conference\ On\$

A social robot mediator to foster collaboration and inclusion among children

Sarah Gillet, Wouter van den Bos, Iolanda Leite

Proceedings of Robotics: Science and Systems, 2020, Corvalis, Oregon, USA

Recognition and 6D Pose Estimation of Large-scale Objects using 3D Semi-Global Descriptors

David Nospes, Kirill Safronov, Sarah Gillet, Klaus Brillowski, Uwe E. Zimmermann

2019 16th International Conference on Machine Vision Applications (MVA), 2019

Mentoring

2023	Georgios Hadjiantonis, Topic change in robot-moderated group discussions	Master Student, KTH
2023	Mohammed Akif, Safe Reinforcement Learning for Social Human-Robot Interaction	Master Student, KTH
2022	Maria Teresa Parreira , Robot Duck Debugging: Can Attentive Listening Improve Problem Solving?	Research Engineer, KTH
2021	Paul Gorgis, Appropriate Robot Gaze for Mediating Confrontational Scenarios	Master Student, KTH
2021	Ravi Bir, Implementing Machine Learning Techniques to Improve the Performance of Socially Assistive Robots	Master Student, KTH
2020	Ke Zhang, Using Augmented-Reality for Visualizing a Social Robot's Internal State	Master Student, KTH
2017	Simon Schlegel, 2D object modeling for mobile robotics with LIDAR scanners	Master student, KUKA
2016	David Nospes , Recognition and 6D Pose Estimation of Large-scale Objects	Bachelor Student, KUKA

Teaching experience

Teaching Assistance Stockholm, Sweden

Social Robotics Course, KTH Royal Institute of Technology

10/2022 - 01/2023

• Responsible for course organization

• Teaching robot tutorials and the lecture on learning in and from human-robot interactions

Guest lecturer Stockholm, Sweden

SOCIAL ROBOTICS COURSE, KTH ROYAL INSTITUTE OF TECHNOLOGY

11/2021

· Responsible for the lecture on learning in and from human-robot interactions

Teaching Assistance Stockholm, Sweden

ARTIFICIAL INTELLIGENCE, KTH ROYAL INSTITUTE OF TECHNOLOGY

01/2019 - PRESENT

• Responsible for giving tutorials and grading of oral presentations

• Creation of new exercises

Thesis and Project Supervision

SUPERVISING MASTER, BACHELOR AND PROJECT STUDENTS

2015 - PRESENT

• Supervising project and master thesis students at KTH

 $\bullet \ \ \text{Supervising students in joined projects with academic supervisors while at KUKA\ Roboter\ GmbH$

Teaching Assistance Dortmund, Germany

DATA STRUCTURES, ALGORITHMS AND PROGRAMMING 1, DEPARTMENT OF COMPUTER SCIENCE, TU DORTMUND

2010 - 2014

• Help sessions for first term students in learning Java, preparing them for intermediate examinations

Invited talks

06/2021 First Furhat Conference on Social Robots in Research, Non-verbal robot behaviors for learning in groups

Online

Germany

Outreach_

	2022	28 ready-to-go ideas for high school projects, KTH, Proposal of the topic of social robotics with small	KTH
	2022	research questions ready for high school students.	KIII
1	11/2021	Demo Days, Code Haven , Talk about personal path to computer science and robotics research as part of a	Online
	11/2021	computer science outreach event.	Omme
	2020, 2021	Schnupperuni TU Dortmund, Invited talk at a plenary about industry and academic work experience	Online
		The Future Needs Giants , Event for young students that identify as women and or non-binary and want to	Stockholm,
	11/2019	learn about technical education at KTH. Demonstrating a human-robot interaction scenario as part of the	Sweden
		robot exhibition.	Sweden
		"Upplev, upptäck, utforska – som en ingenjör" at Tekniska Museet, Exhibiting a demonstration with the	Stockholm,
	09/2019	Pepper robot and answering questions about robots to students from different schools interested in	Sweden
		engeneering subjects	Sweden
2	2016, 2017	Introductory lecture to industrial robotics for children, Leading the lectures and practical exercises with a	Augsburg,
	2010, 2017	small mobile industrial robot	Germany
20	2013, 2014	Schnupperuni TU Dortmund, Planning, coordination and execution of a get-to-know week in computer	Dortmund,
	2013, 2014	t science targeted at young women	Cormany

Academic service

Program Chair & General Chair

PIONEERS WORKSHOP AT ACM/IEEE INTERNATIONAL CONFERENCE ON HUMAN-ROBOT INTERACTION (HRI) 2022

Referee for Conference Proceedings

ROBOTICS: SCIENCE AND SYSTEMS (RSS), 2020

ACM/IEEE INT. CONFERENCE ON HUMAN-ROBOT INTERACTION (HRI), 2020–2024

IEEE/RSJ INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS (IROS), 2017, 2021-2022

ACM CHI CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS, 2022

science targeted at young women

Referee for Journal Articles

PALADYN. JOURNAL OF BEHAVIORAL ROBOTICS
IEEE, TRANSACTIONS ON INTERACTIVE INTELLIGENT SYSTEMS
ACM, TRANSACTIONS ON HUMAN-ROBOT INTERACTION
SPRINGER, INTERNATIONAL JOURNAL OF SOCIAL ROBOTICS
IEEE, TRANSACTIONS ON AFFECTIVE COMPUTING

Student Volunteer

ACM/IEEE INT. CONFERENCE ON HUMAN-ROBOT INTERACTION (HRI), 2020