

Sarah Gillet

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

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

Employment & Education

KTH, Royal Institute of Technology

PHD STUDENT IN ROBOTICS

- Preliminary thesis-title: Human-Robot Interaction for Fostering Group Collaboration
- Supervisors: Prof Iolanda Leite and Prof Hedvig Kjellström
- Expected graduation: Spring 2023

Stockholm, Sweden

09/2018 – PRESENT

Yale University

VISITING ASSISTANT IN RESEARCH

- Advisor: Marynel Vázquez

New Haven, USA

10/2021 – 05/2022

Corporate Research, KUKA Roboter GmbH

SOFTWARE DEVELOPER FOR MOBILE ROBOTICS

- 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)

Augsburg, Germany

07/2015 – 08/2018

TU Dortmund

BSc & MSc IN COMPUTER SCIENCE, MINOR: ROBOTICS

Dortmund, Germany

10/2009 – 05/2015

Scholarship & Awards

2022	Travel scholarship , Signeuls stiftelse, providing 12600SEK (~1500\$) to attend RO-MAN 2022	
2021	Best User Studies Paper Award , The 16th ACM/IEEE International Conference on Human-Robot Interaction	Boulder, Co, USA
2021	HRI Pioneers , Selected to participate in the Human-Robot Interaction (HRI) Pioneers, a highly selective workshop to foster creativity, communication and collaboration between young researchers.	Boulder, Co, USA
2020	Best Late Breaking Report Award, Honorable Mentions , The 15th ACM/IEEE International Conference on Human-Robot Interaction	Cambridge, United Kingdom
2016	Hans-Uhde Award for an excellent master thesis in engineering sciences, Hans-Uhde Foundation , (Original title: Hans-Uhde-Preis für herausragende Abschlussarbeiten in den Ingenieurwissenschaften)	Dortmund, Germany
2013	2013 Best Graduation Award, TU Dortmund , (Original title: "Jahrgangsbestenpreis 2013 der Gesellschaft der Freunde der Technischen Universität Dortmund e.V. auf Vorschlag der Fakultät für Informatik")	Dortmund, Germany
2012 – 2014	Scholarship , German National Academic Foundation	
2010 – 2012	Scholarship , Industry-supported scholarship awarded yearly by the department of computer science (NRW Stipendium, Deutschlandstipendium)	

Publications

BOOK CHAPTERS

To appear:

Multiparty Interaction Between Humans and Socially Interactive Agents

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

Handbook of Socially Interactive Agents

JOURNAL ARTICLES (PEER REVIEWED)

Robot-Mediated Inclusive Processes in Groups of Children: From Gaze Aversion to Mutual Smiling Gaze

Sylvaine Tuncer, **Sarah Gillet**, Iolanda Leite

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)

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, New York, NY, USA

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

Sarah Gillet*, Katie Winkle*, Giulia Belgiovine*, Iolanda Leite

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

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

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, Corvallis, Oregon, USA

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

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

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

Mentoring

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

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
- 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
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Outreach

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

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), 2020–2022

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

ACM CHI CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS, 2022

Referee for Journal Articles

PALADYN. JOURNAL OF BEHAVIORAL ROBOTICS

IEEE, TRANSACTIONS ON INTERACTIVE INTELLIGENT SYSTEMS

ACM TRANSACTIONS ON HUMAN-ROBOT INTERACTION

IEEE, TRANSACTIONS ON AFFECTIVE COMPUTING

Student Volunteer

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