Sarah **Gillet**

PhD candidate · Human-Robot Interaction

KTH, Royal Institute of Technology, School of Electrical Engineering and Computer Science,
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Research interest: Human-Robot Interaction, Robots in Groups, Multiparty Interaction, Multimodal Interaction

Employment & Education

Yale University *New Haven, US*
Visiting Assistant in Research *10/2021 – PRESENT*
- Advisor: Marynel Vázquez

KTH, Royal Institute of Technology *Stockholm, Sweden*
PhD candidate in Robotics *09/2018 – PRESENT*
- Preliminary thesis-title: Human-Robot Interaction for Fostering Group Collaboration
- Supervisors: Prof Iolanda Leite and Prof Hedvig Kjellström

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

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

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

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, 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

2021	**Paul Gorgis**, Appropriate Robot Gaze for Mediating Confrontational Scenarios	*Master Student, KTH, ongoing*
2021	**Ravi Bir**, Implementing Machine Learning Techniques to Improve the Performance of Socially Assistive Robots	*Master Student, KTH, ongoing*
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*

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*

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 engeneering 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

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

Referee for Journal Articles

Paladyn. Journal of Behavioral Robotics

IEEE, Transactions on Interactive Intelligent Systems

IEEE, Transactions on Affective Computing

Student Volunteer

ACM/IEEE Int. Conference on Human-Robot Interaction (HRI), 2020