

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

Yale University

VISITING ASSISTANT IN RESEARCH

- Advisor: Marynel Vázquez

New Haven, US

10/2021 – PRESENT

KTH, Royal Institute of Technology

PHD CANDIDATE IN ROBOTICS

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

Stockholm, Sweden

09/2018 – PRESENT

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

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| 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)

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

To appear in Proceedings of the 2022 ACM/IEEE International Conference on Human-Robot Interaction, 2022, New York, NY, USA

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

Teaching Assistance

ARTIFICIAL INTELLIGENCE, KTH, ROYAL INSTITUTE OF TECHNOLOGY

- Responsible for giving tutorials and grading of oral presentations
- Creation of new exercises

Stockholm, Sweden

01/2019 – PRESENT

Thesis and Project Supervision

SUPERVISING MASTER, BACHELOR AND PROJECT STUDENTS

- Supervising project and master thesis students at KTH
- Supervising students in joined projects with academic supervisors while at KUKA Roboter GmbH

2015 – PRESENT

Teaching Assistance

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

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

Dortmund, Germany

2010 - 2014

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

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

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