

# SARAH STROHKORB SEBO

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## RESEARCH OVERVIEW

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My research focuses on the development of robot teammates that promote positive team social dynamics in addition to the reliable completion of assigned tasks. My work explores behaviors and cognitive models social robots can use to shape group trust, assist in mental model sharing, and enhance group psychological safety.

**Key words:** Human-robot interaction (HRI), robotics, trust, social collaboration, groups and teams

## EDUCATION

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**Ph.D. in Computer Science** 2014 - current  
Yale University, Advisor: Brian Scassellati

**B.S. in Electrical and Computer Engineering** 2010 - 2014  
Franklin W. Olin College of Engineering

## PUBLICATIONS

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### Peer-Reviewed Conference Papers

C2 **Sarah Strohkorb**, Ethan Fukuto, Natalie Warren, Charles Taylor, Bobby Berry, Brian Scassellati (2016). Improving Human-Human Collaboration Between Children With a Social Robot. In *Proceedings of the 25th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2016)*.  
Acceptance rate: 47%

C1 **Sarah Strohkorb**, Iolanda Leite, Natalie Warren, Brian Scassellati (2015). Classification of Childrens Social Dominance in Group Interactions with Robots. In *Proceedings of the 2015 ACM on International Conference on Multimodal Interaction (ICMI 2015)*.  
Acceptance rate: 41%

### Peer-Reviewed Workshop Papers

W4 **Sarah Strohkorb** and Brian Scassellati (2017). Cultivating Psychological Safety in Human-Robot Teams with Social Robots. In *Proceedings of the 2017 Workshop on Robots in Groups and Teams at the 20th ACM Conference on Computer-Supported Collaborative Work and Social Computing*.

W3 **Sarah Strohkorb**, Chien-Ming Huang, Aditi Ramachandran, Brian Scassellati (2016). Establishing Sustained, Supportive Human-Robot Relationships: Building Blocks and Open Challenges. In *Proceedings of the 2016 AAAI Spring Symposium on Enabling Computing Research in Socially Intelligent Human-Robot Interaction: A Community-Driven Modular Research Platform*. AAAI Press.

W2 **Sarah Strohkorb**, Brian Scassellati. Promoting Collaboration with Social Robots. In *Proceedings of the Eleventh ACM/IEEE International Conference on Human Robot Interaction (HRI 2016)*.

- W1 **Sarah Strohkorb**, Brian Scassellati (2015). Promoting Social Collaboration between Children with a Social Robot. In *Proceedings of the 2015 AAAI Fall Symposium on AI for Human-Robot Interaction (AI-HRI 2015)*. AAAI Press.

## TEACHING EXPERIENCE

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<b>Intelligent Robotics</b> , Yale University Teaching Assistant	Fall 2016, Spring 2017
<b>CS50</b> , Yale University Teaching Assistant	Fall 2015
<b>Software Design</b> , Olin College Teaching Assistant	Spring 2014

## GRANTS

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<b>The 2017 HRI Pioneers Workshop at the 2017 ACM/IEEE International Conference on Human-Robot Interaction</b> Key personnel, contributed to grant development and writing National Science Foundation PI: Brian Scassellati	2017
<b>Travel Grants</b>	
HRI Pioneers - General Chair Organizer	2016
Yale Computer Science Department grant to attend Grace Hopper Celebration	2016
HRI Pioneers - Attendee	2015
HRI Student Volunteer	2015
CRA-W Grad Cohort Workshop	2015

## MENTORING

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Co-authored publication numbers refer to the publication lists above.

Priyanka Krishnamurthi, Yale Undergraduate	2017
Neil Madhavani, High School Student	2017
Rachel Ha, Yale Undergraduate	2017
Adam Erickson, Yale Undergraduate	2016
Isabelle Gallagher, High School Student	2016
Ethan Fukuto, Pomona College Undergraduate <i>Publications: C2</i>	2015
Bobby Berry, Yale Undergraduate <i>Publications: C2</i>	2015
Charles Taylor, Yale Undergraduate <i>Publications: C2</i>	2015
Natalie Warren, Yale Undergraduate <i>Publications: C1, C2</i>	2014 - 2015

## SERVICE

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### Organizing Committee

HRI Pioneers Workshop at HRI 2017 2016-2017  
General Co-Chair

### Conference Paper Referee

International Conference on Human-Robot Interaction (HRI) 2017-2018  
International Conference on Intelligent Robots and Systems (IROS) 2017  
International Symposium on Robot and Human Interactive Communication (RO-MAN) 2016-2017

### Journal Article Referee

IEEE Transactions on Cognitive and Developmental Systems 2017  
International Journal of Child-Computer Interaction 2017  
International Journal of Social Robotics 2016

## SELECTED OUTREACH

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**Yale Social Robotics Lab Open Houses**, Yale University, New Haven CT 2015-2017  
Robotics demonstrations including Nao and Keepon at annual lab open houses for the public, drawing approximately 100 people each time the event was held from the greater New Haven community.

**Teen Science Club Presentation**, Guilford Library, Guilford CT 2016  
Presented information and a robotics demonstration to a group of local teens interested in robotics.

## PRESS

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**Taking Robots to the Next Level: Small Talk and Bear Hugs?**, PC Mag