

# Alexandra Bejarano

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## EDUCATION

### Ph.D. Computer Science

Golden, CO | Aug 2020 - Present

COLORADO SCHOOL OF MINES

Teaching Assistant (TA): Computer Vision, Robot Ethics

Coursework: Human-Robot Interaction; Computer Vision; Human-Centered Robotics; Robot Ethics; Theory of Computation; Advanced Computer Architecture; Augmented Reality

### M.S. Computer Science

Golden, CO | Dec 2022

COLORADO SCHOOL OF MINES

Worked on alongside Ph.D. program.

Project: Conducted literature review of interactions and perceptions of robot groups. Designed and completed a human-subject study exploring trust distribution among a robot group based on the identity performance of the group.

### B.S. Computer Science

Tulsa, OK | May 2020

UNIVERSITY OF TULSA

## RESEARCH EXPERIENCE

### Colorado School of Mines | RESEARCH ASSISTANT, MIRRORLAB

Golden, CO | Aug 2020 – Present

Advised by Dr. Tom Williams. Research on robot group identity performance strategies and user mental model formation in Human-Robot Interaction.

### University of Tulsa | RESEARCH ASSISTANT

Tulsa, OK | Jan 2019 - July 2020

Advised by Dr. Sandeep Kuttal. Researched remote human-human pair programming looking at gender differences, human-computer pair programming, and computer programmers' online foraging behavior to inform Human-Computer Interaction technology design.

### University of Notre Dame | RESEARCH ASSISTANT

Tulsa, OK | May 2019 - July 2019

Advised by Dr. Aaron Striegel. Participated in an NSF Research Experience for Undergraduates (REU) Program at the University of Notre Dame's Wireless Institute. Researched the use of network data packets and signal interference towards the development of a system in which WiFi may be used to detect tree leaves for optimal leaf pickup.

### Oregon State University | RESEARCH ASSISTANT

Tulsa, OK | May 2018 - July 2018

Advised by Dr. Kagen Tumer. Participated in an NSF Research Experience for Undergraduates (REU) Program at OSU's Autonomous Agents and Distributed Intelligence Lab. Researched the use of counterfactuals in reinforcement learning to enhance the performance of intelligent agents within a simulated multiagent rover domain.

### University of Tulsa | RESEARCH ASSISTANT

Tulsa, OK | May 2016 - Aug 2017

Advised by Dr. Julio Diaz. Researched robot design for Human-Robot Interaction through manipulation of robot appearance and a user controls interface to assist children with special needs to play.

## PROFESSIONAL SERVICE & OUTREACH

### Conferences & Journals | PAPER REVIEWER

Present

2023 ACM/IEEE International Conference on Human-Robot Interaction - 2022

International Journal of Social Robotics - 2022

ICSR Workshop HRI for Space Robotics - 2021

### HRI Pioneers Workshop | 2023 ORGANIZING COMMITTEE - WEB/PUBLICITY CHAIR

May 2022 - Present

### Mentorship | GRADUATE MENTOR

Mar 2021 - Present

Guided high school (Sierra Laymon, Priyanka Senapati) and undergraduate students (Sebastian Negrete-Alamillo, Zach Magloughlin) in research.

### Society of Hispanic Professional Engineers | OUTREACH ORGANIZER AND VOLUNTEER

2019-2022

CSM Chapter: National Dia de Ciencias Volunteer, assisted with event set up, sign in, and activity engagement for local Colorado high school students. - Sept 2022

**TU Chapter:** Noche Dia de Ciencias STEM Activity Lead, organized STEM activities for Tulsa area middle and high school students. - 2019, 2020

## RECOGNITIONS

<b>HRI Pioneers Workshop</b>   SELECTED FOR 2022 COHORT	March 2022
<b>NSFGRFP</b>   HONORABLE MENTION	Jan 2021
<b>NSFGRFP</b>   HONORABLE MENTION	Jan 2020
<b>Oklahoma Louis Stokes Alliance for Minority Participation (OK-LSAMP)</b>   SCHOLAR	2016 - 2020

## PUBLICATIONS

### **You Had Me at Hello: The Impact of Robot Group Presentation Strategies on Mental Model Formation** |

ALEXANDRA BEJARANO, SAMANTHA REIG, PRIYANKA SENAPATI, TOM WILLIAMS

2022 ACM/IEEE International Conference on Human-Robot Interaction. [Read Paper](#)

### **Robot Co-design Can Help Us Engage Child Stakeholders in Ethical Reflection** | TERRAN MOTT,

ALEXANDRA BEJARANO, TOM WILLIAMS

2022 ACM/IEEE International Conference on Human-Robot Interaction. [Read Paper](#)

### **Understanding and Influencing User Mental Models of Robot Identity** | ALEXANDRA BEJARANO, TOM

WILLIAMS

Pioneers Workshop at HRI 2022. [Read Paper](#)

### **Designing for Perceived Robot Empathy for Children in Long-Term Care** | ALEXANDRA BEJARANO, OLIVIA

LOMAX, PEYTON SCHERSCHEL, TOM WILLIAMS

2021 International Conference on Social Robotics. [Read Paper](#)

### **Design, Performance, and Perception of Robot Identity** | RYAN BLAKE JACKSON, ALEXANDRA BEJARANO,

KATIE WINKLE, TOM WILLIAMS

Workshop on Robo-Identity: Artificial identity and multi-embodiment at HRI 2021. [Read Paper](#)

### **On the Flexibility of Robot Social Identity Performance: Benefits, Ethical Risks and Open Research**

**Questions for HRI** | KATIE WINKLE, RYAN BLAKE JACKSON, ALEXANDRA BEJARANO, TOM WILLIAMS

Workshop on Robo-Identity: Artificial identity and multi-embodiment at HRI 2021. [Read Paper](#)

### **How end-user programmers forage in online repositories? An information foraging perspective** |

SANDEEP KUTTAL, SE YEON KIM, CARLOS MARTOS, ALEXANDRA BEJARANO

2021 Journal of Computer Languages, Vol. 62. [Read Paper](#)

### **Cognitive Architectural Control for Free-Flying Robots on the Lunar Orbital Platform-Gateway** | JON

EMMANUEL SERRANO, SHANIA JO RUNNINGRABBIT, SAYANTI ROY, ALEXANDRA BEJARANO, TOM WILLIAMS

2020 International Conference on Social Robotics. [Read Paper](#)

### **Identity Performance in Multi-Robot Distributed Systems** | TOM WILLIAMS, DANIEL AYERS, CAMILLE

KAUFMAN, JON SERRANO, SHANIA JO RUNNINGRABBIT, SAYANTI ROY, POULOMI PAL, ALEXANDRA BEJARANO, RYAN BLAKE JACKSON

2020 International Conference on Social Robotics. [Read Paper](#)

### **Remote pair programming in online CS education: Investigating through a gender lens** | SANDEEP

KUTTAL, KEVIN GERSTNER, ALEXANDRA BEJARANO

2019 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC). [Read Paper](#)

## PRESENTATIONS

### **No Name, No Voice, Less Trust: Robot Group Identity Performance, Entitativity, and Trust Distribution** |

ALEXANDRA BEJARANO, TOM WILLIAMS

Poster presentation at the Rocky Mountain Celebration of Women in Computing, September 2022.

## **You Had Me at Hello: The Impact of Robot Group Presentation Strategies on Mental Model Formation |**

ALEXANDRA BEJARANO, SAMANTHA REIG, PRIYANKA SENAPATI, TOM WILLIAMS

Oral presentation at the ACM/IEEE International Conference on Human-Robot Interaction, March 2022

## **Understanding and Influencing User Mental Models of Robot Identity |** ALEXANDRA BEJARANO, TOM WILLIAMS

Oral presentation at the HRI Pioneers Workshop, March 2022

## **Perceived Robot Empathy within Social Robot Design for Hospitalized Children |** ALEXANDRA BEJARANO, OLIVIA LOMAX, PEYTON SCHERSCHEL

Poster presentation for Computing-Mines Affiliates Partnership Program, Colorado School of Mines, Golden, CO 2020

## **WiFi Leaf Detection System |** ALEXANDRA BEJARANO, AARON STRIEGEL

- Poster presentation at the Oklahoma Louis Stokes Alliance for Minority Participation (OK-LSAMP) Research Symposium, Stillwater, Oklahoma 2019.
- Poster presentation at the Summer Undergraduate Research Symposium (SURS), University of Notre Dame, Notre Dame, Indiana 2019.

## **Counterfactuals in a Multiagent Domain |** ALEXANDRA BEJARANO, CONNOR YATES, GOLDEN ROCKEFELLER, KAGAN TUMER

- Oral presentation at the National Conference on Undergraduate Research, Kennesaw, Georgia 2019.
- Poster presentation at the Oklahoma Louis Stokes Alliance for Minority Participation (OK-LSAMP) Research Symposium, Stillwater, Oklahoma 2018.

## **Robot Design for Human Interaction |** ALEXANDRA BEJARANO

- Oral presentation at the National Conference on Undergraduate Research, Edmond, Oklahoma 2018.
- Oral presentation at the Oklahoma Louis Stokes Alliance for Minority Participation (OK-LSAMP) Research Symposium, Stillwater, Oklahoma 2017.