

Alexandra Bejarano

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SKILLS | Java, Python, Javascript, C++, Unity, ROS, Human-Subject Experimental Design, Qualitative Research Methods, Statistical and Thematic Data Analysis, Interface Prototyping and Implementation

EDUCATION

Ph.D. Computer Science

Colorado School of Mines

Golden, CO | Expected May 2025

Teaching Assistant (TA): Computer Vision, Robot Ethics

Select Coursework: Human-Robot Interaction (HRI); Computer Vision; Human-Centered Robotics; Robot Ethics; Augmented Reality; Fundamentals of College Teaching; Social and Collaborative Computing

M.S. Computer Science

Colorado School of Mines

Golden, CO | Dec 2022

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 identity.

B.S. Computer Science

University of Tulsa

Tulsa, OK | May 2020

Select Coursework: Fundamentals of Algorithm and Computer Applications; Data Structures; Database Systems; Game Programming; Web Apps Development; Interaction Design

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 HRI. Design and implementation of multi-robot control interfaces.

University of Tulsa | Research Assistant

Tulsa, OK | Jan 2019 - Jul 2020

Advised by Dr. Sandeep Kuttal. Researched remote human-human pair programming to assess 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

St. Joseph County, IN | May 2019 - Jul 2019

Advised by Dr. Aaron Striegel. Participated in an NSF 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

Corvallis, OR | May 2018 - Jul 2018

Advised by Dr. Kagen Tumer. Participated in an NSF 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 multi-agent rover domain.

University of Tulsa | Research Assistant

Tulsa, OK | May 2016 - Aug 2017

Advised by Dr. Julio Diaz. Researched robot design for HRI through manipulation of robot appearance and a user control interface to assist children with special needs to play.

PROFESSIONAL SERVICE & OUTREACH

Mentorship | Research mentor to high school, undergraduate, and graduate students

2021 - Present

Trefny Graduate Teaching Fellowship | Fellow

2023-2024

Provided feedback on teaching portfolios and conducted course teaching observations for graduate students in the College Teaching Certificate Program. Created a resource for educators that highlights ethics discussion and broader thinking in computer science courses. [View Project](#)

Graduate Student Government | Director of Media/Marketing, DEI Committee Member

2023-2024

Conferences & Journals | Paper Reviewer

Present

ACM/IEEE International Conference on Human-Robot Interaction - 2023, 2024, 2025

ACM CHI Conference on Human Factors in Computing Systems - 2024, 2025

ACM Transactions on Human-Robot Interaction - 2023, 2024

IEEE International Conference on Robot & Human Interactive Communication - 2023, 2024

International Journal of Social Robotics - 2022, 2024

ICSR Workshop HRI for Space Robotics - 2021

- HRI Conference** | Workshop Organizer 2022-Present
2024 and 2025 HRI Robo-Identity Workshop
2023 HRI Pioneers Workshop, Web/Publicity Chair
- Summer Multicultural Engineering Training Program** | Workshop Organizer Jun 2023
Organized and ran interactive robot design workshops for high students in the SUMMET program.
- Society of Hispanic Professional Engineers** | Outreach Organizer and Volunteer 2019-2023
CSM Chapter: National Dia de Ciencias, assisted in STEM activity engagement with high school students.
Dia de Ciencias, presented about HRI to students and their families.
TU Chapter: Noche Dia de Ciencias, organized STEM activities for middle and high school students.

RECOGNITIONS

- Trefny Graduate Teaching Fellowship** | Fellow Aug 2023 - May 2024
- Roboethics Competition at ICRA 2023** | 1st Place Winning Team Jul 2023
"NICE: An ethically-sensitive design framework for fetch robots in care contexts"
- HRI Pioneers Workshop** | Selected for 2022 Cohort Mar 2022
- NSF Graduate Research Fellowship Program** | Honorable Mentions Jan 2020, 2021
- Oklahoma Louis Stokes Alliance for Minority Participation** | Scholar 2016 - 2020

SELECT PUBLICATIONS

- Hardships in the Land of Oz: Robot Control Challenges Faced by HRI Researchers and Real-World Teleoperators**
Alexandra Bejarano, Saad Elbeleidy, Terran Mott, Sebastian Negrete-Alamillo, Luis Angel Armenta, Tom Williams
2024 33nd IEEE International Conference on Robot and Human Interactive Communication. [Read Paper](#)
- Degrees of Freedom: A Storytelling Game that Supports Technology Literacy about Social Robots**
Terran Mott, Mark Higger, Alexandra Bejarano, Tom Williams
2024 33nd IEEE International Conference on Robot and Human Interactive Communication. [Read Paper](#)
- Prototyping a User Interface for Multi-Robot Speech Control**
Alexandra Bejarano, Sebastian Negrete-Alamillo, Terran Mott, Tom Williams
Late-Breaking Report at HRI 2024. [Read Paper](#)
- A Gender-Controlled Replication Study on Deconstructed Trustee Theory**
Alexandra Bejarano, Tom Williams
Workshop on Robo-Identity at HRI 2024. [Read Paper](#)
- No Name, No Voice, Less Trust: Robot Group Identity Performance, Entitativity, and Trust Distribution**
Alexandra Bejarano, Tom Williams
2023 32nd IEEE International Conference on Robot and Human Interactive Communication. [Read Paper](#)
- Conversations with Identity Performing Robots: Considerations for Algorithms and Interfaces**
Alexandra Bejarano, Sebastian Negrete-Alamillo, Tom Williams
Workshop on Human-Robot Conversational Interaction at HRI 2023. [Read Paper](#)
- 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](#)
- 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](#)