Alexandra Bejarano

abejarano@mines.edu | linkedIn/alexandra-bejarano-04474b11a | abejarano.com

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
IEEE RO-MAN Conference - 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 (2) and undergraduate students (4) 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

HRI Pioneers Workshop | Selected for 2022 Cohort   March 2022

NSFGRFP | Honorable Mention   Jan 2021

NSFGRFP | Honorable Mention   Jan 2020

Oklahoma Louis Stokes Alliance for Minority Participation (OK-LSAMP) | Scholar   2016 - 2020

PUBLICATIONS

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

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.