

Alexandra Bejarano

abejarano@mines.edu | 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

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

- Research on robot group identity performance strategies and user mental model formation in Human-Robot Interaction (HRI).

UNIVERSITY OF TULSA | RESEARCH ASSISTANT

Tulsa, OK | Jan 2019 - July 2020

- 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 (HCI) technology design.

UNIVERSITY OF NOTRE DAME | RESEARCH ASSISTANT

Tulsa, OK | May 2019 - July 2019

- 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

- 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

- 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.

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

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

UNDERSTANDING AND INFLUENCING USER MENTAL MODELS OF ROBOT IDENTITY | ALEXANDRA BEJARANO, TOM WILLIAMS

Pioneers Workshop at HRI 2022

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

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

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

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

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

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

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)

PRESENTATIONS

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.