

# Alexandra Bejarano

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## EDUCATION

### Ph.D. Computer Science

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

Golden, CO | Aug 2020 - Present

### B.S. Computer Science

UNIVERSITY OF TULSA

Tulsa, OK | May 2020

## RESEARCH EXPERIENCE

### COLORADO SCHOOL OF MINES | RESEARCH ASSISTANT, MIRRORLAB

Golden, CO | Aug 2020 - Present

- Research on robot identity performance 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 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 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

### 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

**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.