

# Ryan Blake Jackson

PhD Candidate, MIRROR Lab, Colorado School of Mines

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## EDUCATION

- 2018 – 2021 **Ph.D. Computer Science (expected)**  
Colorado School of Mines  
*Adviser: Dr. Tom Williams*  
GPA: 4.0
- 2016 – 2018 **M.S. Computer Science**  
Colorado School of Mines  
*Adviser: Dr. Tracy Camp*  
GPA: 4.0
- 2012 – 2016 **B.A. Computer Science (Discrete math minor)**  
Colorado College  
*Department of Mathematics and Computer Science*  
GPA: 3.96

## PUBLICATIONS

**Ryan Blake Jackson**, Ruchen Wen, and Tom Williams (2019 **under review**). Tact in Noncompliance: The Need for Pragmatically Apt Responses to Unethical Commands. *AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES)*.

**Ryan Blake Jackson** and Tom Williams (2019 **under review**). Language-Capable Robots may Inadvertently Weaken Human Moral Norms. *14th Annual ACM/IEEE International Conference on Human Robot Interaction (HRI)*.

**Ryan Blake Jackson** and Tom Williams (2018). Robot: Asker of Questions and Changer of Norms? *International Conference on Robot Ethics and Standards (ICRES)*.

Tom Williams, **Ryan Blake Jackson**, and Jane Lockshin (2018). A Bayesian Analysis of Moral Norm Malleability during Clarification Dialogues. *Annual Meeting of the Cognitive Science Society (COGSCI)*.

**Ryan Blake Jackson**, and Tracy Camp (2018). Amazon Echo Security: Machine Learning to Classify Encrypted Traffic. *27th International Conference on Computer Communication and Networks (ICCCN)*.

Wendy Fisher, **Ryan Blake Jackson**, Tracy Camp, and Valeria Krzhizhanovskaya (2018). Anomaly Detection in Earth Dam and Levee Passive Seismic Data Using Multivariate Gaussian. *16th IEEE International Conference on Machine Learning and Applications (ICMLA)*.

## ABSTRACTS AND PRESENTATIONS

**Ryan Blake Jackson** and Tom Williams (2018). Challenges in Responding to Malicious Robot-Directed Commands. *RSS Workshop on Adversarial Robotics*.

Qin Zhu, Tom Williams, and **Ryan Blake Jackson** (2018). Blame-Laden Moral Rebukes and the Morally Competent Robot: A Confucian Ethical Perspective. *Brain-Based and Artificial Intelligence*.

## AWARDS

- 2016 **Florian Cajori Award**  
For outstanding mathematical prowess  
*Colorado College*
- 2016 **Graduated Magna Cum Laude**  
*Colorado College*
- 2016 **Departmental Distinction in Computer Science**  
*Colorado College*
- 2012 **Volunteerism/Community Service Scholarship**  
*Colorado Council on High School/College Relations*

## RESEARCH EXPERIENCE

2017 – 2018

### Colorado School of Mines *Master's Thesis Research*

Investigated machine learning to extract ostensibly private information from data moving between an Echo device and Amazon's servers, despite encryption. Explored determining what type of user request is being answered by the Echo and who, of a finite set of people, is speaking to the Echo.

2016 – 2018

### Colorado School of Mines *Research Assistant*

Contributed to research on various departmental grant projects and publications.

SUMMER 2017

### Ricoh Production Print Solutions LLC *Machine Learning Intern*

Created a machine learning system to predict production print performance from document traits. System used by sales team to respond to customer inquiries.

2015 – 2016

### Colorado College *Senior Capstone Research Project*

Performed detailed statistical analysis of multithreading context switch data from various operating systems. Presented and defended analysis to suggest kernel optimizations.

SUMMER 2015

### University of Illinois at Urbana-Champaign, Parallel Computing Institute *Undergraduate Researcher*

Researched machine learning for astrophysics to determine relative velocities of galaxies and properties of dark energy. Presented technical poster summarizing research.