Joshua R. Bhagat Smith

PhD Student · Robotics & Artificial Intelligence

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Education	
Oregon State University PHD ROBOTICS AND ARTIFICIAL INTELLIGENCE • Advisor: Dr. Julie A. Adams	Corvallis, OR 2020 - present
University of Arkansas MS COMPUTER SCIENCE • Advisor: Dr. Michael Gashler	Fayetteville, AR 2015 - 2017
University of Arkansas BS COMPUTER ENGINEERING • Minors in Math, Physics	Fayetteville, AR 2011 - 2015
Professional Experience	
 2020- Graduate Research Assistant, Robotics, Oregon State University 2017-2020 Senior Software Engineer, HERE Technologies 2015-2017 Graduate Teaching Assistant, CSCE, University of Arkansas 2016 Research Intern, NASA Langley 	
Publications	
Published	
A. Moore, M. Schubert, T. Fang, J. Smith , N. Rymer. "Lidar-derived navigational geofences fo in <i>Proc. AIAA AVIATION FORUM</i> Virtual Event. 2020.	r low altitude flight operations,"
A. Moore, M. Schubert, S. Balachandran, M. Consiglio, C. Munoz, J. Smith , D. Lewis, P. Sch transmission structures with UAV path conformance and lidar-based geofences," in <i>Proc</i> <i>Innovative Smart Grid Technologies Conference (ISGT)</i> Singapore. 2018.	
J. Smith , M. Gashler. "An investigation of how neural networks learn from the experiences of averaging," in <i>Proc. IEEE International Conference on Machine Learning and Applications</i>	
In Submission	
J. Bhagat Smith , P. Baskaran, J.A. Adams. "Decomposing Physical Workload Estimation fo <i>IEEE International Conference on Human-Machine Systems</i> , 2022.	r Human-Robot Teams" in <i>Proc.</i>
P. Baskaran, , J. Bhagat Smith , J.A. Adams. "Visual Task Recognition for Human-Robot Teaconference on Human-Machine Systems, 2022.	ams" in <i>Proc. IEEE International</i>
J. Bhagat Smith , P. Baskaran, J.A. Adams. "Influence of honeybee inspired drifter agents."	PloS one, 2022.
In Preparation	
J. Bhagat Smith, P. Baskaran, J.A. Adams. "Guard agents and their impact on collective dec	cision making."
Teaching Experience	

Spring 2017 Artificial Intelligence, Teaching Assistant
 Fall 2016 Programming Foundations I, Teaching Assistant
 Spring 2016 Computer Organization, Teaching Assistant
 Fall 2015 Programming Foundations I, Teaching Assistant

Research Experience _____

Oregon State University - Robotics

Corvallis, OR

ADVISOR: DR. JULIE A. ADAMS

Fall. 2020 - Present

- Dissertation: "Adaptive Workload Estimation using Few-Shot Learning"
- Project: "DARPA Resilient Emergent Properties for Autonomous Agent Interactions (REPAIR)"
- Project: "Managing Bio-Inspired Collectives"

University of Arkansas - Computer Science

Fayetteville, AR

ADVISORS: DR. MICHAEL GASHLER

2015-2017

• Thesis: "An investigation of how neural networks learn from the experiences of peers through periodic weight averaging."

NASA Langley Hampton, VA

Advisors: Dr. Andrew Moore

2016

• Project: "Extracting Lidar-based Geofences for UAV Inspection of Electrical Transmission Structures"

Mentoring _____

2022 Simone Angelo S. Toribio, REU Mentor, Oregon State University