ALEXANDER LALEJINI

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EDUCATION

Mississippi State University   *Present*
Degree: Computer Science
Expected Graduation: May 2015
GPA: 4.0

RESEARCH EXPERIENCE

Laboratory for Autonomous Systems Research (LASR)   May 2014 - Present
Naval Research Laboratory

· Mentor: Dr. Greg Trafton, Dr. Laura Hiatt
· I am working on using dynamic context produced by a computational cognitive model to improve a neural network based object recognition system.

Center for Advanced Vehicular Systems (CAVS)   January 2014 - Present
Mississippi State University

· Mentor: Dr. Daniel Carruth, Dr. Cindy Bethel
· I have worked on the ITAR restricted CRES-GV project, which involved writing software to integrate robotic platforms in a vehicle simulation software package.

Social, Therapeutic, & Robotic Systems (STaRS) Laboratory   August 2013 - Present
Mississippi State University

· Mentor: Dr. Cindy Bethel
· I have worked as the project co-lead on the Robot Intent and Control Project. The project involved developing a system that allows for supervisory command and control of an autonomous robot platform using a variety of interfaces. This system was used in an experiment that measured the relative success of each interface.

EMPLOYMENT

Naval Research Laboratory (NRL)   May 2014 - Present
NREIP Intern   *Washington, D.C.*

· Supervisor: Dr. Greg Trafton, Dr. Laura Hiatt
· Summer 2014 undergraduate research position at the Laboratory for Autonomous Systems Research

Mississippi State University Computer Science Department   November 2013 - Present
Undergraduate Research Assistant   *Mississippi State, MS*

· Supervisor: Dr. Cindy Bethel
· I work as an undergraduate research assistant in the STaRS lab.

Jet Propulsion Laboratory (JPL)   Summer 2012
USRP Intern   *Pasadena, CA*

· Supervisor: William R. Johnson
· I provided Earth Science software support; I developed a radiometer calibration application using Enthought Python. The application coordinated the automation of multiple calibration instruments via serial communication and provided the user with real-time data visualization from the calibration process.

Mississippi State University Physics Department   Fall 2011 - Spring 2012
Undergraduate Research Assistant   *Mississippi State, MS*

· Supervisor: Dr. Angelle Tanner
· I wrote various data analysis and image processing scripts primarily for data collected at the Palomar Observatory.

Naval Research Laboratory (NRL)   Summers of 2011, 2010, 2009
Computer Clerk (2011), SEAP Intern (2010, 2009)   *John C. Stennis Space Center, Mississippi*

· Supervisor: Dr. Bruce Lin
· I worked on a battlespace management interface written using the World Wind Java SDK. I also implemented a clustering algorithm for use in classifying sparse data points.

TECHNICAL SKILLS

Computer Languages	Python, C/C++, Java
Software Tools & Libraries	Robot Operating System (ROS), Enthought Python, Scipy, Numpy
Version Control	GIT
Robots	Kobuki TurtleBot 2, Dr. Robot Jaguar
Web	PHP, HTML/CSS, SQL
Operating Systems	Linux, Windows, Mac OS

AWARDS AND HONORS

- President's Scholar (Fall 2011 - Present)
- Shackouls Honors College
- Meritorious Award in Bagley Undergraduate Research Poster Competition (Poster title: Robot Control)

SERVICE

SWAT Training Participant   November 2013 - Present
Mississippi State University

· I am a volunteer in monthly training exercises by the Starkville SWAT team in coordination with the STaRS lab.

National SeaPerch Challenge Volunteer   May 2014
Hattiesburg, MS

· I was a poolside judge for the Heist Challenge.