

# Lucas THOMPSON

## PERSONAL DATA

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## SUMMARY

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New graduate seeking a career in data science and machine learning.

## WORK EXPERIENCE

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JUN 2014 - AUG 2017	<p>GRADUATE RESEARCH ASSISTANT <i>University of Southern Mississippi, Hattiesburg, MS</i></p> <p><b>Duties:</b></p> <ul style="list-style-type: none"><li>• Did research in applying machine learning and reinforcement learning to various problems in pursuit of publications.</li><li>• Coordinated the creation of a new undergraduate robotics course.</li><li>• Prepared outlines, slides, example code, assignments, and demonstrations for the course.</li><li>• Instructed the course using prepared materials.</li><li>• Set up robotic simulations for research purposes.</li><li>• Incorporated computer vision elements into robotics projects.</li><li>• Created data sets from simulated robotic sensors to be used with various machine learning algorithms.</li></ul>
MAY 2013 - AUG 2013	<p>UNDERGRADUATE RESEARCH ASSISTANT <i>University of Southern Mississippi, Hattiesburg, MS</i></p> <p><i>A summer apprenticeship under the U.S. Army Research Office Undergraduate Research Apprenticeship Program (URAP).</i></p> <p><b>Duties:</b></p> <ul style="list-style-type: none"><li>• Introduction to basic artificial intelligence algorithms</li><li>• Study of more advanced artificial intelligence publications</li><li>• Implementation of basic robotic algorithms using a graphical simulator</li><li>• Contributions towards a multi-robotic algorithm to be submitted for later publication</li></ul>

## EDUCATION

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- 2015 - 2017    COMPUTATIONAL SCIENCE PH.D. (INCOMPLETE), **University of Southern Mississippi**, Hattiesburg, MS  
GPA: 4.0
- 2014 - 2015    COMPUTER SCIENCE M.S., **University of Southern Mississippi**, Hattiesburg, MS  
GPA: 4.0
- 2011 - 2014    COMPUTER SCIENCE B.S., **University of Southern Mississippi**, Hattiesburg, MS  
GPA: 4.0  
Honors: *summa cum laude*
- 2009 - 2011    COMPUTER SCIENCE A.A. (No Degree, Transferred), **Co-Lin Community College**, Wesson, MS  
GPA: 4.0

## SKILLS

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- Languages: Python, C++, Java, Android, BASH, Matlab/Octave, SQL, HTML, CSS, PHP
- Tools: Linux, Keras, Pandas, Matplotlib, Jupyter, OpenCV, Robotics Operating System, Flask Web Framework with Jinja 2 Templating, Git, SVN, LaTeX, GraphViz, CMake, VirtualBox
- Computer Skills: Google Docs, Google Sheets, Google Slides, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, LibreOffice Writer, LibreOffice Calc, LibreOffice Impress
- Basic skills in general machine learning algorithms
- Basic skills in deep learning and neural networks
- Basic skills in computer vision using OpenCV
- Experienced in reinforcement learning
- Skilled in programming and software development

## ACCOMPLISHMENTS

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### Publications

- 2016    "Detection of Plan Deviation in Multi-Agent Systems" - Published in the conference journal for the Association for the Advancement of Artificial Intelligence (AAAI) 2016
- 2014    "Model AI Assignments 2014" - Published in conference journal for the Association for the Advancement of Artificial Intelligence (AAAI) 2014
- 2011    Essay "Robotic Automation and the Future Economy" placed 3rd and was published in Co-Lin Community College's yearly periodical.

### School Activities

- 2016    Represent the University of Southern Mississippi at the Association for Advancement of Artificial Intelligence (AAAI) Conference.
- 2016    Coordinated a 3D printing fundraiser to benefit the School of Computing Graduate Student Association. The event involved the sale of many 3D printed items including 3D prints of individuals created with Microsoft Kinect.

## **Grants and Scholarships**

- 2014 - 2017 Tuition Waiver through University of Southern Mississippi Graduate Research Assistant Grant
- 2010 Awarded Beal Family Scholarship for highest GPA in Computer Science

## **Online Courses**

- 2014 Machine Learning - Stanford via Coursera.com
- 2014 Linear and Integer Programming - University of Colorado via Coursera.com