

W. Cannon Lewis II

Last updated October 20, 2018

Rice University
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Education **Rice University**

PhD, Computer Science, —

B.S., Computer Science, May 2018

GPA: 3.97

B.A., Mathematics, May 2018

GPA: 3.91

Research

Army Research Laboratory, Adelphi, Maryland

2018

Summer Journeyman Fellow

Project: *Robust Mission Planning through Behavior Trees*

- Designed mission planner based on behavior trees.
- Implemented mission planner for large robotic system.

Kavraki Lab, Rice University, Houston, Texas

2017–2018

Undergraduate Research Assistant

Project: *Hidden Constraints in Robotic Reinforcement Learning*

- Investigated Deep RL applied to robotic manipulators.
- Found that current methods do not scale.

Project: *Multi-Robot Task and Motion Planning*

- Researched task-and-motion planning for two robots.
- Used TMKit to plan for two UR5 manipulators.

Wah Chiu Lab, Baylor College of Medicine, Houston, Texas

2015

CPRIT Undergraduate Fellow

Project: *Computational Filtering of Cryo-Electron Tomograms*

- Improved NAD filtering of cryo-EM tomograms.
- Labeled and processed tomograms of huntintin protein.

Teaching

Rice University, Computer Science

Teaching Assistant, Algorithmic Robotics

2017

Teaching Assistant, Functional Programming

2016

Teaching Assistant, Algorithmic Thinking

2016

Rice University, Mathematics

Teaching Assistant, Linear Algebra

2016

Teaching Assistant, Honors Multivariable Calculus IV

2016

Teaching Assistant, Honors Multivariable Calculus III

2015

Awards	<i>K2I Computational Science and Engineering Fellowship</i>	2018
	<i>Army Research Lab Summer Journeyman Fellowship</i>	2018
	<i>Rice Engineering Alumni Distinguished Research Excellence Award</i>	2018
	<i>Rice Engineering Alumni Senior Merit Award in Computer Science</i>	2018
	<i>Rice Undergraduate Research Symposium Excellence in Research</i>	2018
	<i>Rice Undergraduate Scholars Program</i>	2017
	<i>Excellence in Collegiate Journalism - Critical Review</i>	2016/2017
	<i>CPRIT Undergraduate Research Fellowship</i>	2015
	<i>Rice University President's Honor Roll</i>	2014–2018
Activities	Fall 2018	
	Rice Machine Learning Lunch Coordinator	
	Rice Graduate Student Association Media Committee Member	
	Host of Rice Computer Science Department podcast	
	Spring 2018	
	Yates High School FIRST Robotics Mentor	
Interning	Fall 2017	
	Rice Undergraduate Research Symposium Think Tank member	
	Co-reviewer for ICRA 2018 with Lydia Kavraki	
	Rice IT Department , Houston, Texas – Student Consultant	2015–2017
	<ul style="list-style-type: none"> • Assisted students and faculty with computer repairs. • Consulted on common computer problems and purchases. 	
	Two Sigma , New York, New York – Software Engineering Intern	2016
	<ul style="list-style-type: none"> • Worked as a software engineer for statistical modelers. • Implemented distributed NLP techniques for Elasticsearch. 	
	Rackspace , San Antonio, Texas – Software Development Intern	2012–2013
	<ul style="list-style-type: none"> • Migrated internal Ruby on Rails 2 apps to Rails 3. • Built internal campus map in Python and HTML/CSS. • Rewrote billing software to use actor-based parallelism in Java. 	
Publications	None at this time.	
	Paper in submission to ICRA 2019 available upon request.	