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Last updated September 24, 2019

Rice University PhD Student, Department of Computer Science MS 132, 6100 Main Street Houston, Texas 77005		wcannon@rice.edu www.cannontwo.com 210-305-9061	
Education	Rice University PhD, Computer Science, — B.S., Computer Science, May 2018 B.A., Mathematics, May 2018	GPA: 4.0 GPA: 3.97 GPA: 3.91	
Research	 Army Research Laboratory, Adelphi, Maryland Summer Journeyman Fellow Project: Robust Mission Planning through Behavior Trees Designed mission planner based on behavior trees. Implemented mission planner for large robotic system. 	2018	
	 Kavraki Lab, Rice University, Houston, Texas 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. 	2017–2018 eg	
	 Used TMKit to plan for two UR5 manipulators. Wah Chiu Lab, Baylor College of Medicine, Houston, Tex CPRIT Undergraduate Fellow Project: Computational Filtering of Cryo-Electron Tomogram. Improved NAD filtering of cryo-EM tomograms. Labeled and processed tomograms of huntintin protein. 		
Teaching	Rice University, Computer Science Teaching Assistant, Algorithmic Robotics Teaching Assistant, Introduction to Computer Systems Teaching Assistant, Algorithmic Robotics Teaching Assistant, Functional Programming Teaching Assistant, Algorithmic Thinking	2019 2019 2017 2016 2016	
	Rice University, Mathematics Teaching Assistant, Linear Algebra Teaching Assistant, Honors Multivariable Calculus IV Teaching Assistant, Honors Multivariable Calculus III	2016 2016 2015	

Awards	K2I Computational Science and Engineering Fellowship Army Research Lab Summer Journeyman Fellowship Rice Engineering Alumni Distinguished Research Excellence Award Rice Engineering Alumni Senior Merit Award in Computer Science Rice Undergraduate Research Symposium Excellence in Research Rice Undergraduate Scholars Program Excellence in Collegiate Journalism - Critical Review CPRIT Undergraduate Research Fellowship Rice University President's Honor Roll	2018 2018 2018 2018 2018 2017 2016/2017 2015 2014–2018
Activities	Fall 2019 Rice Machine Learning Lunch Coordinator Spring 2019 Rice Machine Learning Lunch Coordinator Host of Rice Computer Science Department podcast 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 Fall 2017 Rice Undergraduate Research Symposium Think Tank member Co-reviewer for ICRA 2018 with Lydia Kavraki	
Interning	 Rice IT Department, Houston, Texas – Student Consultant Assisted students and faculty with computer repairs. Consulted on common computer problems and purchases. 	2015–2017
	 Two Sigma, New York, New York – Software Engineering Intern Worked as a software engineer for statistical modelers. Implemented distributed NLP techniques for Elasticsearch. 	2016
	 Rackspace, San Antonio, Texas – Software Development Intern Migrated internal Ruby on Rails 2 apps to Rails 3. Built internal campus map in Python and HTML/CSS. Rewrote billing software to use Java actor-based parallelism. 	2012–2013
Papers	1) Lewis, W. Cannon II, Moll, Mark, and Kavraki, Lydia E. "How Much Do Unstated Problem Constraints Limit Deep Robotic Reinforcement Learning?." (2019) https://doi.org/10.25611/az5z-xt37	
	2) Lewis, W. Cannon II, Moll, Mark, and Kavraki, Lydia E.	

"Piecewise Affine Reinforcement Learning for Motion Planning."

(In Submission to ICRA 2020)

Rel. Coursework	Data and Systems (ELEC 519) Numerical Optimization (CAAM 564) Mathematical Probability 1 (STAT 581) Intro. to Random Processes and Appl. (CAAM 583)	Fall 2019 Spring 2019 Fall 2018 Fall 2018
	Introduction to Robotics (COMP 498) Artificial Intelligence (COMP 440) Statistical Machine Learning (COMP 540) Algorithmic Robotics (COMP 450)	Spring 2018 Fall 2017 Spring 2017 Fall 2016