

SEIJI SHAW

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EDUCATION	<i>Ph.D. in Electrical Engineering and Computer Science</i> Massachusetts Institute of Technology, Cambridge, MA Advisor: Prof. Nicholas Roy	2022-
	<i>M.S. in Electrical Engineering and Computer Science</i> Massachusetts Institute of Technology, Cambridge, MA Advisor: Prof. Nicholas Roy	2022-
	<i>Sc.B., with Honors, in Mathematics-Computer Science</i> Brown University, Providence, RI Advisor: Prof. George Konidaris Thesis: <i>Towards Safe Learning in Robotic Manipulation</i>	2018-2022
EMPLOYMENT	<i>Graduate Researcher</i> Computer Science and Artificial Intelligence Lab, MIT Robust Robotics Group (PI: Nicholas Roy)	2022 - Present
	<i>Undergraduate Researcher</i> Department of Computer Science, Brown University Intelligent Robot Lab (PI: George Konidaris)	2020 - 2022
	<i>Research Intern</i> Mitsubishi Electric Research Laboratories, Cambridge, MA Data Analytics Group (PI: Daniel Nikovski)	Summer 2021
	<i>Research Intern</i> Cedars-Sinai Medical Center Hong Lab (PI: TingTing Hong)	Summers 2015, 2019
AWARDS AND HONORS	<i>Senior Prize</i> , Brown University Dept. of Computer Science	2022
	<i>Sigma Xi</i> , inducted	2022
	<i>Outstanding Winner</i> , COMAP Mathematical Contest in Modelling	2020
	<i>Rachel Carson Award</i> , COMAP Mathematical Contest in Modelling	2020
	<i>Blacher Outstanding New Student Initiatives Award</i> , Brown-RISD Hillel	2019
PUBLICATIONS	<ol style="list-style-type: none">5. Seiji Shaw, Devesh K Jha, Arvind Raghunathan, Radu Corcodel, Diego Romeres, George Konidaris, and Daniel Nikovski. Constrained dynamic movement primitives for safe learning of motor skills. <i>arXiv preprint arXiv:2209.14461</i>, 20224. Seiji Shaw, Ben Abbatematteo, and George Konidaris. Rmps for safe impedance control in contact-rich manipulation. In <i>2022 International Conference on Robotics and Automation</i>, pages 2707–2713. IEEE, 20223. Tiffany Ding*, Soryan Kumar*, and Seiji Shaw*. A seabird population model to evaluate plastic pollution policies. <i>UMAP Journal of Undergraduate Mathematics and its Applications</i>, 41(3), 2020	

2. Yan Liu, Kang Zhou, Jing Li, Sosse Agvanyan, Ana-Maria Caldaruse, Seiji Shaw, Tara C Hitzeman, Robin M Shaw, and TingTing Hong. In mice subjected to chronic stress, exogenous cbin1 preserves calcium-handling machinery and cardiac function. *Basic to Translational Science*, 5(6):561–578, 2020
1. Ying Fu, Seiji A Shaw, Robert Naami, Caresse L Vuong, Wassim A Basheer, Xiuqing Guo, and TingTing Hong. Isoproterenol promotes rapid ryanodine receptor movement to bridging integrator 1 (bin1)-organized dyads. *Circulation*, 133(4):388–397, 2016

GRANTS AND FELLOWSHIPS	National Science Foundation Graduate Research Fellowship Program	2022-2025
	Karen T. Romer Undergraduate Research and Teaching Award	2019
TEACHING	<i>Head Teaching Assistant, CSCI 1951R: Introduction to Robotics</i> Dept. Computer Science, Brown University Instructor: Stefanie Tellex	Fall 2020
OUTREACH	<i>Choreorobotics Controls Engineer and Mentor</i> Dept. Theatre and Performance Studies, Brown University	Spring, Summer 2022
	<i>Mentor, Team 5987 Galaxia</i> Reali Hebrew Day School, Haifa, Israel	Fall 2017-Spring 2018
	<i>Mentor, Team 6000 Firehawk Robotics</i> Shalhevet High School, Los Angeles, California	2018-2019
REFEREEING	IEEE International Conference on Robotics and Automation (ICRA)	2023
	Learning for Decision and Control (L4DC)	2023