

# SEIJI SHAW

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<b>CONTACT</b>	32 Vassar St. 32-33x Cambridge MA, 02139	seijis@mit.edu 415-699-4234
<b>EDUCATION</b>	<i>Ph.D. Electrical Engineering and Computer Science</i> Massachusetts Institute of Technology, Cambridge, MA Advisor: Prof. Nicholas Roy	2022-Present
	<i>M.S. Electrical Engineering and Computer Science</i> Massachusetts Institute of Technology, Cambridge, MA Advisor: Prof. Nicholas Roy	2022-Present
	<i>Sc.B. Mathematics-Computer Science, magna cum laude</i> Brown University, Providence, RI Advisor: Prof. George Konidaris Honors Thesis: <i>Towards Safe Learning in Robotic Manipulation</i>	2018-2022
<b>EMPLOYMENT</b>	<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
<b>AWARDS AND HONORS</b>	<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
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"><li>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. In <i>IEEE/RSJ International Conference on Intelligent Robots and Systems</i>, 2023. (to appear.)</li><li>4. Seiji Shaw, Ben Abbatematteo, and George Konidaris. Rmps for safe impedance control in contact-rich manipulation. In <i>International Conference on Robotics and Automation</i>, 2022</li><li>3. 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</li></ol>	

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

<b>GRANTS AND FELLOWSHIPS</b>	National Science Foundation Graduate Research Fellowship	2022-2025
	Ford Foundation Fellowship, Honorable Mention	2022
	Karen T. Romer Undergraduate Research and Teaching Award	2019
<b>TEACHING</b>	<i>Head Teaching Assistant, CSCI 1951R: Introduction to Robotics</i> Dept. Computer Science, Brown University Instructor: Stefanie Tellex	Fall 2020
<b>OUTREACH</b>	<i>Technical Volunteer in Quest for Embodied Intelligence</i> Quest for Artificial Intelligence, Massachusetts Institute of Technology	Fall 2022-Present
	<i>Choreorobotics Mentor and Controls Engineer</i> Dept. Theatre and Performance Studies, Brown University	Spring-Summer 2022
	<i>Workshop Instructor</i> Brown Design Workshop, Dept. of Engineering, Brown University	2019-2020
	<i>Mentor, Team 6000 Firehawk Robotics</i> Shalhevet High School, Los Angeles, California	2018-2019
	<i>Mentor, Team 5987 Galaxia</i> Reali Hebrew Day School, Haifa, Israel	2017-2018
<b>REFEREEING</b>	IEEE International Conference on Robotics and Automation (ICRA)	2023
<b>OTHER</b>	<i>Shabbat Program Coordinator, MIT GradHillel</i>	2023-Present
	<i>Orthodox Student Community Liaison, Brown-RISD Hillel</i>	2019-2021
	<i>Blacher Outstanding New Student Initiatives Award, Brown-RISD Hillel</i>	2019