

# 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. 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 Konidakis 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 Konidakis)	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>4. Seiji Shaw, Ben Abbatematteo, and George Konidakis. Rmps for safe impedance control in contact-rich manipulation. In <i>2022 International Conference on Robotics and Automation</i>, pages 2707–2713. IEEE, 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><li>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. <i>Basic to Translational Science</i>, 5(6):561–578, 2020</li></ol>	

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 Program Karen T. Romer Undergraduate Research and Teaching Award	2022-2025 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>Choreorobotics Controls Engineer and Mentor</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 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
<b>REFEREING</b>	IEEE International Conference on Robotics and Automation (ICRA)	2023
<b>OTHER</b>	<i>Shabbat Program Coordinator, MIT GradHillel</i> <i>Orthodox Student Community Liaison, Brown-RISD Hillel</i> <i>Blacher Outstanding New Student Initiatives Award, Brown-RISD Hillel</i>	2023- 2019-2021 2019