SEIJI SHAW

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EDUCATION	Ph.D. Electrical Engineering and Computer Science Massachusetts Institute of Technology, Cambridge, MA Advisor: Prof. Nicholas Roy	2022-Present
	M.S. Electrical Engineering and Computer Science Massachusetts Institute of Technology, Cambridge, MA Advisor: Prof. Nicholas Roy	2022-2024
	Sc.B. Mathematics-Computer Science, magna cum laude Brown University, Providence, RI Advisor: Prof. George Konidaris Honors Thesis: Towards Safe Learning in Robotic Manipulation	2018-2022
EMPLOYMENT	Graduate Researcher Computer Science and Artifical Intelligence Lab, MIT Robust Robotics Group (PI: Nicholas Roy)	2022-Present
	Undergraduate Researcher Department of Computer Science, Brown University Intelligent Robot Lab (PI: George Konidaris)	2020-2022
	Research Intern Mitsubishi Electric Research Laboratories, Cambridge, MA Data Analytics Group (PI: Daniel Nikovski)	Summer 2021
	Research Intern Cedars-Sinai Medical Center Hong Lab (PI: TingTing Hong)	Summers 2015, 2019
AWARDS AND HONORS	Best Paper in Robot Manipulation Award Finalist, ICRA Senior Prize, Brown University Dept. of Computer Science Sigma Xi, inducted Outstanding Winner, COMAP Mathematical Contest in Modelli Rachel Carson Award, COMAP Mathematical Contest in Model	
PRE-PRINTS	 Seiji Shaw, Aidan Curtis, Leslie Pack Kaelbling, Tomás Lozano-Pérez, and Nicholas Roy. Towards practical finite sample bounds for motion planning in tamp. arXiv preprint arXiv:2407.17394, 2024. In Press Algorithmic Foundations of Robotics 	
PUBLICATIONS	5. Michael Noseworthy, Seiji Shaw, Chad Kessens, and Nicholas Roy. Amortized inference for efficient grasp model adaptation. In <i>Proceedings of the International Conference on Robotics and Automation</i> , 2023	

- 4. Thomas Cohn, Seiji Shaw, Max Simchowitz, and Russ Tedrake. Constrained bimanual planning with analytic inverse kinematics. In *Proceedings of the International Conference on Robotics and Automation*, 2023. **Best Paper in Robot Manipulation Award Finalist.**
- 3. 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 *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2023
- 2. Seiji Shaw, Ben Abbatematteo, and George Konidaris. Rmps for safe impedance control in contact-rich manipulation. In *Proceedings of the International Conference on Robotics and Automation*, 2022
- 1. Tiffany Ding*, Soryan Kumar*, and Seiji Shaw*. A seabird population model to evaluate plastic pollution policies. *UMAP Journal of Undergraduate Mathematics and its Applications*, 41(3), 2020

GRANTS AND FELLOWSHIPS	National Science Foundation Graduate Research Fellowship Ford Foundation Fellowship, Honorable Mention Karen T. Romer Undergraduate Research and Teaching Award	2022-2025 2022 2019
TEACHING	Head Teaching Assistant, CSCI 1951R: Introduction to Robotics Dept. Computer Science, Brown University Instructor: Stefanie Tellex	Fall 2020
OUTREACH	Technical Volunteer in Quest for Embodied Intelligence Quest for Artifical Intelligence, Massachusetts Institute of Techn	Fall 2022-Present
	Choreorobotics Mentor and Controls Engineer Dept. Theatre and Performance Studies, Brown University	Spring-Summer 2022
	Workshop Instructor Brown Design Workshop, Dept. of Engineering, Brown University	2019-2020 ty
	Mentor, Team 6000 Firehawk Robotics Shalhevet High School, Los Angeles, California	2018-2019
	Mentor, Team 5987 Galaxia Reali Hebrew Day School, Haifa, Israel	2017-2018
REFEREEING	IEEE International Conference on Robotics and Automation IEEE International Conference on Robotics and Automation	2023 2024
OTHER	Shabbat Program Coordinator, MIT GradHillel Orthodox Student Community Liaison, Brown-RISD Hillel	2023-Present 2019-2021

2019

Blacher Outstanding New Student Initiatives Award, Brown-RISD Hillel