

CONTACT INFORMATION	<p>Toyota Research Institute 4440 El Camino Real Los Altos, CA</p> <p>408-367-9193 krshna@stanford.edu cs.stanford.edu/~ksrini</p>
RESEARCH INTERESTS	<p>My research centers on developing dexterous generalist robot policies by advancing methods in reinforcement learning, foundation models, and large-scale simulation. During my PhD, I pioneered approaches in <i>object-centric motion task representations</i>, <i>differentiable simulation</i>, and <i>student-teacher distillation</i> to enable robust tool-use policies. Currently as a Research Scientist at TRI, I am investigating co-training policies with simulated and real-world trajectories from a variety of sources to perform robustly in real-world tasks.</p>
EDUCATION	<p>Stanford University, Stanford, CA PhD, Computer Science <i>June 2025</i> Dissertation: Learning Dexterous Manipulation Policies for Tool-Use PhD Advisors: Jeannette Bohg, Animesh Garg PhD Committee: Jeannette Bohg, Animesh Garg, Karen Liu, Sanjay Lall, Silvio Saverese</p> <p>Yale University, New Haven, CT B.S., Computer Science and Mathematics <i>May 2017</i> Senior Thesis: <i>Unsupervised Learning on ScRNASeq with Autoencoders</i> Thesis Advisor: Smita Krishnaswamy</p>
RESEARCH EXPERIENCE	<p>Research Scientist <i>Oct 2024 – Current</i> Toyota Research Institute, Cambridge, MA USA Large Behavior Models, Learning Multi-Task Dexterous Manipulation Policies With Robot Foundation Models Supervisor: Russ Tedrake</p> <p>Research Intern <i>Oct 2023 – June 2024</i> NVIDIA, Seattle, WA USA Seattle Robotics Lab (SRL), Learning multi-task policies for manipulating articulated objects. Mentor: Jie Xu, Dieter Fox</p> <p>Research Intern <i>Jun 2023 – Oct 2023</i> Tesla Motors, Palo Alto, CA, USA Optimus Tesla Bot, Manipulation and Learning Mentor: Julian Ibarz</p> <p>Research Intern <i>Jun 2022 – Oct 2022</i> Vector Institute for AI, Toronto, ON, Canada Differentiable Simulation for efficient learning of tool-use with dexterous manipulation. Mentor: Animesh Garg</p> <p>Research Intern <i>Jun 2019 – Sept 2019</i> Google Brain Robotics, Mountain View, CA Safe exploration for continuous robotics tasks via learned safety-critics for offline reinforcement learning. Mentor: Chelsea Finn</p>
SELECTED PUBLICATIONS	<p>1. TRI Large Behavior Models Group, “A Careful Examination of Large Behavior Models for Multitask Dexterous Manipulation.” <i>arXiv preprint arXiv:2507.05331</i>, 2025. <i>Preprint</i>.</p>

2. **Srinivasan, K.**, Sud, B., Garg, A., Bohg, J. “Behavior Cloning from Suboptimal Demonstrations with Robust World Models.” *In submission*, Neural Information Processing Systems (NeurIPS) 2025.
3. **Srinivasan, K.**, Xu, J., Ang, H., Heiden, E., Fox, D., Bohg, J., Garg, A. “ACGD: Visual Multitask Policy Learning with Asymmetric Critic Guided Distillation.” International Conference on Intelligent Robots and Systems (IROS), 2025
4. Lum, T. G. W., Li, A. H., Culbertson, P., **Srinivasan, K.**, Ames, A. D., Schwager, M., Bohg, J. (2024). ”Get a grip: Multi-finger grasp evaluation at scale enables robust sim-to-real transfer.” Conference on Robot Learning (CoRL) 2024.
5. **Srinivasan, K.**, Heiden, E., Bohg, J., Garg, A. “Object-Centric Task-Space Policy Learning for Contact-Rich Dexterous Manipulation.” International Symposium of Robotics Research (ISRR), 2024.
6. Georgiev, I, **Srinivasan, K.**, Heiden, E., Xu, J., Garg, A. “Adaptive Horizon Actor-Critic for Policy Learning in Contact-Rich Differentiable Simulators.” International Conference on Machine Learning, 2024.
7. Vuong, Q. et al. “Open x-embodiment: Robotic learning datasets and RT-x models.” International Conference on Robotics and Automation (ICRA), 2024. *Preprint*.
8. Karamcheti, S., Chen, A., Mirchandani, S., Nair, S., **Srinivasan, K.**, Hsu, K., Bohg, J., Sadigh, D., Finn, C. “On the Opportunities and Risks of Foundation Models. §2.3 Robotics.” August 2021, *Preprint*.
9. Claire Chen*, **Srinivasan, K.***, Zhang, J., Zhang, J., Shao, L., Yuan, S., Culbertson, P., Dai, H., Schwager, M., Bohg, J. “Dexterous manipulation primitives for the real robot challenge.” **2nd Place in Real Robot Challenge**, Challenge Webpage, January 2021. *Preprint*.
10. Thananjeyan, B., Balakrishna, A., Nair, S., Luo, M., **Srinivasan, K.**, Hwang, M., Gonzalez, J., Ibarz, J., Finn, C., Goldberg, K. “Recovery rl: Safe reinforcement learning with learned recovery zones.” IEEE Robotics and Automation Letters, 2021. *Journal*.
11. **Srinivasan, K.**, Eyesenbach, B., Ha, S., Tan, J., Finn, C. “Learning to be Safe: Deep RL with a Safety Critic.” October 2020, *Preprint*.
12. Losey, D., **Srinivasan, K.**, Mandlekar, A., Garg, A., Sadigh, D. “Controlling assistive robots with learned latent actions.” International Conference on Robotics and Automation (ICRA), 2020. *Journal*.
13. Li, T., **Srinivasan, K.**, Meng, M.Q.H., Yuan, W., Bohg, J. “Learning hierarchical control for robust in-hand manipulation.” International Conference on Robotics and Automation (ICRA), 2020. *IEEE*.
14. Lee, M.*, Zhu, Y.*, **Srinivasan, K.**, Shah, P., Saverese, S., Li, F.F., Garg, A., and Bohg, J. “Making Sense of Vision and Touch: Self-Supervised Learning of Multimodal Representations for Contact-Rich Tasks.” International Conference on Robotics and Automation (ICRA), **Best Conference Paper Award**, 2019. *Journal*.
15. Amodio, M.*, **Srinivasan, K.***, van Dijk, D., Mohsen, H., Moon, K.R., Moon, G., and Krishnaswamy, S. “SAUCIE: Sparse Autoencoder for Unsupervised Clustering, Imputation, and Embedding.” Nature Methods, 2019. *Journal*.

16. Spiers, A., Morgan, A., **Srinivasan, K.**, Calli, B., and Dollar, A. “Using Variable-Friction Finger Surfaces and Proprioception to Classify Objects During Robotic Within-Hand Manipulation.” IEEE Transactions on Haptics, 2019.

AWARDS AND FELLOWSHIPS	• IEEE ICRA Best Conference Paper Award	May 2024
	For <i>Open X-Embodiment: Robotic Learning Datasets and RT-X</i> .	
	• Wu Tsai Neuroscience MBCT Trainee Fellowship	May 2020
	• NSF GRFP Honorable Mention	April 2020
	• ICRA Best Paper Award	May 2019
	For <i>Making Sense of Vision and Touch: Self-Supervised Learning of Multimodal Representations for Contact-Rich Tasks</i> .	
	• ICRA Best Paper in Robot Manipulation Award Finalist	May 2018
	Nominated for <i>Learning Modes of In-Hand Manipulation</i> .	
INVITED TALKS AND WORKSHOPS	• Toyota Research Institute URP Workshop	March 2024
	<i>DexMOTS: Object Centric Task-Space Policy Learning for Contact-Rich Dexterous Manipulation</i>	
	• Organizer: NeurIPS Robot Learning Workshop	Dec 2023
	• Organizer: ICRA Workshop RL for contact-rich manipulation	May 2022
	• SAIL Workshop, Stanford, CA	Sept 2021
	<i>Designing Structured Policies for Real-World Dexterous Manipulation</i>	
	• Cold Spring Harbor NYQB17, Cold Spring Harbor, NY	Aug 2017
	<i>Autoencoders for Imputing, Clustering, and Embedding Single-Cell Data</i>	
TEACHING EXPERIENCE	Teaching Assistant	
	• CS 231A - Computer Vision: 3D Reconstruction to Recognition	Winter 2021–24
	Instructor: Jeannette Bohg, Ph.D	
	Department of Computer Science, Stanford University	
	• CS 448P - Hacking the Pandemic	Spring 2020
	Instructor: Doug James, Ph.D	
	Department of Computer Science, Stanford University	
	• CPSC 477 - Natural Language Processing	Spring 2018
	Instructor: Dragomir Radev, Ph.D	
	Department of Computer Science, Yale University	
	Course Assistant	
	• CPSC 365 - Design and Analysis of Algorithms	Spring 2016
	Instructor: Daniel Spielman, Ph.D	
	Department of Computer Science, Yale University	
	• STAT 365 - Machine Learning	Spring 2017
	Instructor: Susan Wang, Ph.D	
	Department of Statistics, Yale University	
SERVICE AND ACTIVITIES	CURIS Research Mentor	Summer 2021
	• Mentoring promising undergraduates from other schools and preparing them for careers in research and academia.	
	SAIL Undergraduate Mentor	Winter 2018 – Fall 2019
	• Mentoring promising undergraduates from underrepresented groups and helping them become involved in research in the future.	
	Wu Tsai Advisory Committee and Seminar Committee	Since Winter 2020
	• Hosted department town-halls and guest lectures with faculty and alumni for students	
	Computer Science Student Advisory Committee	Since Fall 2020
	• Coordinated Department of Computer Science student groups, and planned annual Admitted Student Visit Day events	

SAIL Undergraduate Mentor

Since January 2019

- Mentoring promising undergraduates from underrepresented groups and helping them become involved in research at Stanford.

SAIL Salon Organizer, Blog Editor

August 2018 – June 2019

- Organized the bi-weekly Stanford AI Salon, which hosted speakers to discuss topics at the intersections of AI and other areas.