# Alap Kshirsagar

EDUCATION	
Cornell University, Ithaca, USA	Aug 2017 – Jul 2022
Doctor of Philosophy, Mechanical Engineering	C
Minor: Computer Science	
Research Area: Human-Robot Interaction	
Thesis Committee: Prof. Guy Hoffman (Chair), Prof. Hadas Kress-Gazit, Prof. Mark Ca	mpbell
GPA: 4/4	
Academic Year 2019-20 at Ben-Gurion University of the Negev (BGU), Israel	
Indian Institute of Technology-Madras, Chennai, India	Jul 2015 – May 2017
Master of Technology, Mechanical Engineering	
Specialization: Mechanical Design	
CGPA: 9.07/10	
Winter Semester 2016-17 at Rheinisch-Westfälische Technische Hochschule (RWTH) A	achen, Germany
Indian Institute of Technology-Bombay, Mumbai, India	Jul 2010 – Apr 2014
Bachelor of Technology, Mechanical Engineering	
Minor: Aerospace Engineering	
CGPA: 8.78/10	
PUBLICATIONS/PRESENTATIONS	

## **Book Chapters**

1. G. Hoffman, A. Kshirsagar and M. Law. "Human-Robot Interaction Challenges in the Workplace." S. C. Matz (Ed.), The Psychology of Technology: Social Science Research in the Age of Big Data, American Psychological Association, 2022

#### Journal Articles

- 1. B. Dreyfuss, O. Heffetz, G. Ishai, G. Hoffman and A. Kshirsagar. "Additive vs. Subtractive Earning in Shared Human-Robot Work Environments." *Journal of Economic Behavior and Organization (JEBO)*, 2024
- 2. S. Gu\*, **A. Kshirsagar**\*, Y. Du\*, G. Chen, J. Peters and A. Knoll. "A Human-Centered Safe Robot Reinforcement Learning Framework with Interactive Behaviors." *Frontiers in Neurorobotics*, 2023 (\*co-first author)
- 3. A. Kshirsagar, R. Fortuna, Z. Xie, and G. Hoffman. "Dataset of Bimanual Human-to-Human Object Handovers." *Data in Brief*, 2023
- 4. T. Faibish\*, **A. Kshirsagar**\*, G. Hoffman and Y. Edan. "Human Preferences for Robot Eye Gaze in Human-to-Robot Handovers." *International Journal of Social Robotics*, 2022 (\*co-first author)
- 5. A. Kshirsagar, G. Hoffman and A. Biess. "Evaluating Guided Policy Search for Human-Robot Handovers." *IEEE Robotics and Automation Letters* 6 (2): 3933-3940, 2021 (The contents of this paper were also selected by ICRA'21 Program Committee for presentation at the Conference)
- A. Kshirsagar, M. Lim, S. Christian and G. Hoffman. "Robot Gaze Behaviors in Human-to-Robot Handovers." *IEEE Robotics and Automation Letters* 5(4):6552-6558, 2020 (The contents of this paper were also selected by IROS'20 Program Committee for presentation at the Conference)
- 7. A. Kshirsagar and A. Guha. "Design optimization of rocker bogie system and development of look-up table for reconfigurable wheels for a planetary rover." *International Journal of Vehicle Structures and Systems*, 2016
- S. Loharkar, A. Kshirsagar and R. Pant. "Design and Fabrication of a portable semi-rigid airship." Annual Technical Volume of Aerospace Engineering Division Board, Institution of Engineers (India), 2015-16 Conference Proceedings
- A. Boehm, T. Schneider, B. Belousov, A. Kshirsagar, L. Lin, K. Doerschner, K. Drewing, C. Rothkopf, J. Peters. "What Matters for Active Texture Recognition with Vision-Based Tactile Sensors." *IEEE International Conference on Robotics and Automation (ICRA)*, Yokohama, Japan, 13 May – 17 May 2024
- 2. A. Kshirsagar\*, T. Faibish\*, G. Hoffman and A. Biess. "Lessons Learned from Utilizing Guided Policy Search for Human-Robot Handovers with a Collaborative Robot." *International Conference on Robotics, Automation and Artificial Intelligence (RAAI)*, Singapore, 9 December 11 December 2022 (\*co-first author)

- 3. A. Kshirsagar\*, R. Ravi\*, H. Kress-Gazit and G. Hoffman. "Timing-specified Controllers for Human-Robot Handovers." *IEEE International Conference on Robot & Human Interactive Communication (RO-MAN)*, Naples, Italy, 29 August – 2 September 2022 (\*co-first author)
- 4. A. Kshirsagar, H. Kress-Gazit and G. Hoffman. "Specifying and Synthesizing Human-Robot Handovers." *IEEE/RSJ International Conference on Intelligent Systems and Robots (IROS)*, Macau, 4-8 November 2019
- 5. A. Kshirsagar, B. Dreyfuss, G. Ishai, O. Heffetz and G. Hoffman. "Monetary-Incentive Competition between Humans and Robots: Experimental Results." *ACM/IEEE International Conference on Human-Robot Interaction* (*HRI*), Daegu, South Korea, 11-14 March 2019
- A. Kshirsagar, R. Pant and K. Bodi. "Dynamic simulation of breakaway aerostat with emergency deflation valves." 16<sup>th</sup> AIAA Aviation Technology, Integration and Operations Conference, AIAA Aviation, Washington D.C., USA, 13-17 June 2016
- 7. A. Kshirsagar, D. Harursampath and B. R. Gupta. "VAM applied to Dimensional Reduction of Non-linear Multifunctional Film Fabric Laminates." *12th International Conference of Numerical Analysis and Applied Mathematics*, Rhodes, Greece, 22-28 September 2014
- A. Kshirsagar, A. Tejwani, V. Singh, G. Bhat, N. Singh, A. Yadav, A. Berlia, K. Saboo, U. Patil and S. Prasad. "Mechatronic Design, Fabrication and Analysis of a Small-Size Humanoid Robot-Parinat.", *International Conference on Design, Manufacturing and Mechatronics*, Pune, India, April 2014 Workshops/Late-breaking Reports
- Y. Goeksu, A. Almeida-Correia, V. Prasad, A. Kshirsagar, D. Koert, J. Peters, G. Chalvatzaki. "Kinematically Constrained Human-like Bimanual Robot-to-Human Handovers.", *ACM/IEEE International Conference on Human Robot Interaction (HRI) Late Breaking Report*, Boulder, United States, 11 March – 15 March 2024.
- F. Hahne, V. Prasad, A. Kshirsagar, D. Koert, R. M. Stock-Homburg, J. Peters, G. Chalvatzaki. "Transition State Clustering for Interaction Segmentation and Learning", ACM/IEEE International Conference on Human Robot Interaction (HRI) Late Breaking Report, Boulder, United States, 11 March – 15 March 2024.
- 3. A. Boehm, T. Schneider, B. Belousov, A. Kshirsagar, L. Lin, K. Doerschner, K. Drewing, C. A. Rothkopf and J. Peters. "Tactile Active Texture Recognition With Vision-Based Tactile Sensors", *NeurIPS Workshop on Touch Processing: a new Sensing Modality for AI*, New Orleans, United States, 25 September 2023
- 4. A. Kshirsagar and G. Hoffman. "Empowering Robots for Object Handovers." ACM/IEEE International Conference on Human-Robot Interaction (HRI) Pioneers Workshop, Online, 7 March 2022
- 5. A. Kshirsagar, H. Kress-Gazit and G. Hoffman. "Human-Robot Handovers with Signal Temporal Logic Specifications." *IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*, New Delhi, India, 14-18 October 2019 (Best Late Breaking Report Award)
- 6. A. Kshirsagar, V. Sharma and R. S. Pant. "Design and Development of a Dismantable Semi Rigid Remotely Controlled Airship." *10th International Airship Convention and Exhibition*, Friedrichshafen, Germany, 16-18 April 2015
- A. Rajagopal, P. Bende, S. Yadav, R. Agarwal and A. Sathawane, A. Kshirsagar, M.C. Hemanth, N. Kumar, P. Gatkine. "Design, Modelling and Control of a 6 Degrees of Freedom Robotic Arm with specific applications in Planetary Exploration Missions." 65th International Astronautical Congress, Toronto, Canada, 29 September-3 October 2014

# KEY AWARDS/SCHOLARSHIPS

— Postdoctoral Networking Tour in AI Fellowship by 'German Academic Exchange Service (DAAD)'	2022
- Research Academic Internship Scholarship by 'Israeli Council for Higher Education'	2019
— IIT Master Sandwich Scholarship by 'German Academic Exchange Service (DAAD)'	2016
- S.N. Bose Scholarship by 'Indo-US Science and Technology forum'	2016
— Gandhian Young Technological Innovation Award by 'Society for Research and Initiatives for Sustainable	2013
Technologies and Institutions, India'	
- Institute Technical Special Mention, awarded to 12 out of 7000 students, for notable contribution in	2012
robotics activities at IIT Bombay	
- Top 1% in National Standard Examination in Physics, Chemistry and Astronomy	2010
- KVPY (Kishore Vaigyanik Protsahan Yojana or Young Scientist Initiative) fellowship, initiated by	2010
Department of Science and Technology, Govt. of India	
- National Talent Search Scholarship by NCERT, Govt. of India, awarded to top 750 students in the country	2008

on the basis of 3 tier examination

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Postdoctoral Research Assistant, Technische Universität Darmstadt, Germany	July 2022 - Present
- Robotic Tactile Exploratory Procedures	
PIs: Prof. Jan Peters (TU Darmstadt), Prof. Katja Doerschner (JLU Giessen), Prof. Kr	iut Drewing (JLU Giessen)
Developing active exploration techniques for identifying object properties with vision	-based tactile sensors
— Characterizing Fear-induced Adaptation of Balance	
PIs: Prof. Jan Peters (TU Darmstadt), Prof. Dominik Endres (PU Marburg), Prof. Fran	nk Bremmer (PU Marburg)
Developing computational model of fear-induced adaptation of balance using inverse	reinforcement learning
— Robotic and Human-Robot Partner Juggling	
PI: Prof. Jan Peters (TU Darmstadt)	
Developing robot controllers for high acceleration ball toss juggling	
- Robot Gaze Behaviors in Shared Workspaces	
Investigating robot gaze behaviors for communicating collision avoidance intent in hu	man-robot collaboration
— Learning Human-Robot Interaction	
Developing algorithms for learning physical human-robot interactions from human-hu	iman demonstrations
Craduata Descarab Assistant Cornell University USA	Aug 2017 May 2022
— Bimanual Human-Robot handovers	$\operatorname{Aug} 2017 - \operatorname{May} 2022$
Dimunual Human-Kobol Humaovers	
Investigating imitation learning for bimanual reach-to-handover robot motion generation	on
- Multi-sensor Datasets of Human-to-Human handovers	
PI: Prof. Guy Hoffman (Cornell)	
Built two datasets containing skeleton tracking data and RGB-D data in bimanual han	dovers and shelving tasks
— Timing-specified Controllers for Human-Robot handovers	
PIs: Prof. Guy Hoffman (Cornell), Prof. Hadas Kress-Gazit (Cornell)	
Developed and evaluated two model predictive controllers with timing parameters in a	a packaging task
— Gaze Behaviours in Human-Human and Human-Robot Handovers	F
PI: Prof. Guy Hoffman (Cornell), Prof. Yael Edan (BGU)	
Investigated the gaze behaviors of receivers in human-to-human and human-to-robot l	nandovers
— Specifying and Synthesizing Human-Robot Handovers	
PIs: Prof. Guy Hoffman (Cornell), Prof. Hadas Kress-Gazit (Cornell)	
Proposed a robot controller for human-robot handovers with formal specifications wri	tten in STL
— Interactive Fabrication with Augmented Reality and a Robotic 3D Printer	
PIs: Dr. Huaishu Peng (Cornell), Prof. François Guimbretière (Cornell), Prof. Guy Ho	ffman (Cornell)
Conducted a user study of a prototyping system consisting of AR CAD editor and a ro	botic 3D printer
<i>— Economic Decision Making with a Robot</i>	
PIs: Prof. Guy Hoffman (Cornell), Prof. Ori Heffetz (Cornell and HUJI)	
Investigated human decision making in the presence of robots when there are monetar	y rewards at stake
Visiting Doctoral Researcher, BGU, Israel	Oct 2019 – Aug 2020
- Guided Policy Search for Human-Robot Handovers	
PIs: Dr. Armin Biess (BGU-Israel), Prot. Guy Hoffman (Cornell)	we in Marta Carry 1 and the
Evaluated controllers learnt with Guided Policy Search for human-robot handov physical Franka Emika Danda robot	ers in MuJoCo and with
Master's thesis RWTH Aachen Germany and IIT Madras India	Aug 2016 – May 2017
- <i>iGPS based motion control of robotic manipulator using Robot Operating System (ROS)</i>	114g 2010 114y 2017
PIs: Univ -Prof Burkhard Corves (RWTH) Dr. Souray Rakshit (IITM)	
Devised algorithms for accurate control of robotic manipulators using indoor GPS (i	GPS) feedback and tested
them in Gazebo and on physical UR-5 robot	or s) recubick and tested
Visiting Student Researcher, University of California Berkeley, USA	May 2016 – Jul 2016
- Robotic manipulation of deformable objects	-
PI: Prof. Masayoshi Tomizuka (UCB)	
Developed simulation of 1-D deformable object manipulation tasks by industrial robo	ts FANUC LRmate200iD,
using Remote Application Programming Interface (API) between V-REP and MATLA	В
Junior Research Fellow, IIT Bombay, India	Sep 2014 – Jun 2015
— Trajectory simulation of breakaway aerostat	

PI: Prof. Rajkumar Pant (IIIB) Developed MATLAB simulations of ascent and descent trajectory of a tethered as	erostat after accidental tether
breakage, to predict performance of payload recovery device	
Design and development of a dismantie-able semi rigid dirship	
Built a prototype of remotely controlled semi-rigid airship with a dismantle-able	frame to provide structural
strength and ability to mount propulsion units on off-gondola locations	
B.Tech. Project, IIT Bombay, India	Aug 2013 – Apr 2014
— Design Optimization and Motion Dynamics of Mobility System for Mars Rover	
PI: Prof. Anirban Guha (IITB)	
Analysed the effect of wheel dimensions on mobility performance of rocker bogie	system and devised look-up
tables for autonomous reconfiguration of wheel dimensions	
Summer Research Internship, IISc Bangalore, India	May 2013 – Jul 2013
<ul> <li>VAM based modelling of Film-Fabric Laminates</li> </ul>	
PI: Prof. Dineshkumar Harursampath (IISc)	
Developed asymptotically correct constitutive model of multi-layered film-fabric	ric laminates with potential
application in reliable design of High-Altitude Airship envelopes	L 2012 N 2012
Student Investigator, IIT Bombay, India	Jan 2012 – Nov 2013
- Design of Fabric Cutting Machine for Mat-making Handlooms	
PI: Prof. Suhas Joshi (IITB)	
Designed and tested various prototypes of human powered as well as electric fabric	c cutting machine to increase
the productivity of mat-making handlooms operated by visually challenged people	
STUDENT TEAM PROJECTS	
Mars Rover Team, IIT Bombay, India	Feb 2013 – May 2014
• Led the 10-member Mechanical sub-system	
• Designed and manufactured rover's mobility system as well as robotic arm to a	accomplish various mission
objectives like astronaut assistance, sample collection, equipment servicing and terrain	n traversing
• Participated in Arkaroola Mars Robot Challenge-2014, a 14-day expedition organize	d by Mars Society Australia
and Cahan Astronomica in Antronomia Wildownoog Construction Association	
and Saber Astronautics in Arkaroola Wilderness Sanctuary, Australia	San 2012 May 2014
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Irina Rath (BSc, Computer Science, TU Darmstadt)	Nov 2022 – Mar 2023
Christoph Dickmanns (BSc, Computer Science, TU Darmstadt)	Nov 2022 – Mar 2023
Hanjo Schnellbächer (MSc, Computer Science, TU Darmstadt)	Nov 2022 – Mar 2023
Zeyuan Sun (MSc, Computer Science, TU Darmstadt)	Nov 2022 – Mar 2023
Alina Boehm (BSc, Cognitive Science, TU Darmstadt)	Sep 2022 – Mar 2023
Raphael Fortuna (BS, Electrical Engineering, Cornell)	Sep 2021 – Jul 2022
Zhiming Xie (MEng, Mechanical Engineering, Cornell)	Jan 2022 – Jul 2022
Tair Faibish (MSc, Industrial Engineering, BGU)	Jan 2020 – Dec 2021
Rahul Kumar Ravi (MS, Mechanical Engineering, Cornell)	Jan 2021 – Dec 2021
Jordana Socher (BS, Computer Science, Cornell)	Mar 2021 – Dec 2021
David Bruk-Rodriguez (BS, Biomedical Engineering, Cornell)	Mar 2021 – Dec 2021
Sophie Keller (BS, Computer Science, Cornell)	Sep 2021 – Dec 2021
Cole Dawson (BS, Mechanical Engineering, Cornell)	Mar 2021 – May 2021
Mohammad Ali Moghaddasi (BS, Mechanical, Cornell)	Mar 2021 – May 2021
Melanie Lim (MEng, Systems Engineering, Cornell)	Apr 2019 – Apr 2020
Shemar Christian (BS, Mechanical Engineering, Cornell)	Apr 2019 – Apr 2020
Julie Katz (MPS, Information Science, Cornell)	Feb 2019 – May 2019
Song Ye (MPS, Information Science, Cornell)	Feb 2019 – May 2019
Lucia Gomez (BS, Computer Science, Cornell)	Sep 2018 – Dec 2018

## **SERVICE** Peer-Review

ACM/IEEE International Conference on Human-Robot Interaction (HRI) (special recognitio	<b>n</b> ) 2024
Conference on Robot Learning (CoRL)	2023
IEEE Robotics and Automation Letters	2023
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	2023
IEEE International Conference on Advanced Robotics and Its Social Impacts (ARSO)	2023
ACM/IEEE International Conference on Human-Robot Interaction (HRI)	2023
IEEE International Conference on Robotics and Automation (ICRA)	2023
International Conference on Social Robotics (ICSR)	2022
International Journal of Social Robotics	2022
Robotics: Science and Systems (RSS) Pioneers	2022
IEEE Transactions on Instrumentation & Measurement (TIM)	2021
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	2021
IEEE RAS/EMBS International Conference for Biomedical Robotics and Biomechatronics (E	BioRob) 2020
ACM/IEEE International Conference on Human-Robot Interaction (HRI) Late Breaking Repo	orts 2020
Robotics: Science and Systems (RSS) Pioneers	2019
Volunteering	
Board Member, Society for Promotion of Indian Classical Music and Culture Among	
Youth (SPICMACAY) - Cornell Chapter, USA	Aug 2018 – Jun 2022
Leadership Team Member, Science and Research Opportunities in India (Sci-ROI), USA	Jan 2021 – Aug 2022
Volunteer, Group for Rural Activities IIT Bombay, India Aug 2011 –	

# **TECHNICAL SKILLS**

<b>IECHNICAL SKI</b>	
Programming	Robot Operating System, Python, C++, MATLAB, Mathematica, Arduino
Robots	Kinova Gen3, Kinova Jaco2, Franka-Emika Panda, Barrett WAM, Sawyer, UR-5, WidowX Mark III
CAD packages	Solidworks, Autodesk Inventor, AutoCAD
Simulation tools	NVIDIA Omniverse, MuJoCo, Gazebo, V-REP, Autodesk Nastran, Ansys, Autodesk Simulation Multiphysics, MSC/ Adams View
Documentation Languages	LaTeX English (Fluent), Hindi (Fluent), Marathi (Native), Sanskrit (Beginner)