

Kautilya Chenna

Contact Information	525 S 900 E, Apt C2 Salt Lake City, Utah 84102	phone: +1 (385) 528-7547 email: chenna@outlook.com
Research Interests	Robotics: Perception, Manipulation and Cognition; Machine Learning, Computer Vision.	
Education	University of Utah , Salt Lake City, Utah <i>Master of Science in Engineering, Robotics</i> August 2016 – present <ul style="list-style-type: none">Expected graduation date: May 2018Advisors: Dr. Tucker Hermans BMS College of Engineering , Bangalore, India <i>Bachelor of Engineering in Mechanical Engineering</i> September 2011 – May 2015	
Publications	“Planning Multi-Fingered Grasps as Probabilistic Inference in a Learned Deep Network”; Qingkai Lu, Kautilya Chenna , Balakumar Sundaralingam, Tucker Hermans; <i>International Symposium on Robotics Research (ISRR)</i> , 2017. [PDF]	
Experience	Learning Lab for Manipulation Autonomy (LL4MA) , University of Utah <i>Graduate Research Assistant</i> August 2016 – present Currently working under Dr. Tucker Hermans on developing a machine learning algorithm that predicts if the robot will be in collision for a given configuration using only pointcloud data and joint states. NMCAD Lab , Indian Institute of Science <i>Project Assistant</i> January 2015 – July 2016 Worked under Prof. Dineshkumar Harursampath on the project “ <i>Design and Fabrication of a Conventional Flapping Wing Micro Aerial Vehicle.</i> ” We worked towards developing a platform for testing various wing designs, materials and mechanisms on the MAV.	
Selected Projects	Baxter Grasp Pipeline January 2017 <ul style="list-style-type: none">Developed a grasping pipeline to grasp objects on a table.Tools Used: PCL, ROS, Moveit, Graspit, tensorflow Video Action recognition using Deep Learning October 2016 <ul style="list-style-type: none">Implemented a Deep Neural Network using tensorflow to classify actions in scenes.Achieved a mean average precision of 15.4% on the Charades Dataset.	
Skills	Languages: Python, MATLAB, C++, Java. Tools: PCL (Pointcloud Library), ROS (Robot Operating System), OpenCV, Tensorflow, Blender (3D Graphics), Keras, Graspit Simulator, Gazebo, V-REP. Design Tools: SolidWorks, PTC Creo Parametric, Autodesk Inventor, ANSYS. Robots: KUKA LBR4, Rethink Robotics Baxter, SimLab’s Allegro Hand , Quanser HD2	
Relevant Coursework	Robot Kinematics and Dynamics, Controls (Linear, Nonlinear, and Embedded), Computer Vision, Artificial Intelligence, Motion Planning, Machine Learning, Probabilistic Modeling, System ID for Robotics.	
Links	Website: https://chenna.me Linkedin: https://www.linkedin.com/in/kautilyachenna/ Github: https://github.com/hashb	