

Kautilya Chenna

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Research Interests	Robotics: Perception, Manipulation and Cognition; Machine Learning, Computer Vision.	
Education	University of Utah , Salt Lake City, Utah <i>Master of Science in Robotics</i> <ul style="list-style-type: none">Advisors: Dr. Tucker Hermans	GPA: 3.40 August 2016 – present
Relevant Coursework	Probabilistic Modeling, 3D Computer Vision, Artificial Intelligence, Motion Planning, Machine Learning, Robotics and System Identification.	
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> Currently working under Dr. Tucker Hermans on developing a robust and fast collision detection algorithm using deep learning to detect robot collisions using pointcloud data. NMCAD Lab , Indian Institute of Science <i>Project Assistant</i> 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.	August 2016 – present January 2015 – July 2016
Selected Projects	Semantic Segmentation of Images using Deep Learning <ul style="list-style-type: none">Implemented several graphical models and a deep learning algorithm for pixel wise segmentation of imagesAchieved near state of the art performance with the deep learning algorithm (VGG16 + CRF). Twitter Spam Detection <ul style="list-style-type: none">Implemented a machine learning algorithm from scratch to predict if a twitter user’s content is spam.Ranked 1st in kaggle in-class competition. Video Action recognition using Deep Learning <ul style="list-style-type: none">Implemented a Deep Neural Network using tensorflow to classify actions in scenes.Achieved performance comparable to the state of the art. Baxter Grasping <ul style="list-style-type: none">Developed a grasping pipeline to grasp objects on a table autonomously.Tools Used: PCL, ROS, Moveit, tensorflow	March 2018 December 2017 October 2017 January 2017
Skills	Languages: Python, MATLAB, C++, Java. Tools: PCL (Pointcloud Library), ROS (Robot Operating System), OpenCV, Tensorflow, Blender, Keras. Robots: KUKA LBR4, Rethink Robotics Baxter, SimLab’s Allegro Hand, Quanser HD2	
Links	Website: https://chenna.me Linkedin: https://www.linkedin.com/in/kautilyachenna/ Github: https://github.com/hashb	