Sujay Bajracharya

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EDUCATION

Carnegie Mellon University – School of Computer Science

Pittsburgh, PA August 2021

Master of Science in Robotics

Relevant Courses

Machine Learning

Computer Vision

Kinematics, Dynamics, and Control

Cleveland State University

Cleveland, OH

Bachelor of Science in Computer Science. GPA: 3.96

May 2019

Washkewicz College of Engineering Student Achievement Award (Computer Science)

EXPERIENCE

Research Assistant Oct 2019 – Present

Carnegie Mellon University – RPAD

Pittsburgh, PA

- Devised deep reinforcement learning approach for cloth manipulation using tactile sensing
- Implemented RL environment using Sawyer robot arm for real-robot training and evaluation
- Contributed to submitted CoRL 2020 paper on Latent Action Space for Offline Reinforcement Learning

Robotics Researcher Jun 2018 – Aug 2018

University of Wisconsin-Stout

Menomonie, WI

- Developed meal assistance system for 6DOF robot arm to improve autonomy for users with disabilities
- Implemented robot commands utilizing Kinect camera for face tracking, gesture, and speech recognition
- Evaluated system on volunteers with upper body mobility impairments

Research Assistant May 2017 – Jun 2018

Cleveland State University - Washkewicz College of Engineering

Cleveland, OH

- Implemented dialog system with semantic parser and probabilistic dialog manager.
- Aided in navigation system implementation for mobile delivery robot using ROS in Python and C++
- Published at RSS 2018 Workshop on human-robot dialog for delivery robots to improve intention estimation

PUBLICATION

Saeid Amiri, Sujay Bajracharya, Cihangir Goktolga, Jesse Thomason, and Shiqi Zhang Augmenting Knowledge through Statistical, Goal-oriented Human-Robot Dialog IROS 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems

2019

Sujay Bajracharya, Saeid Amiri, Jesse Thomason, and Shiqi Zhang Simultaneous Intention Estimation and Knowledge Augmentation via Human-Robot Dialog RSS 2018 Workshop on Models and Representations for Natural Human-Robot Communication 2018

SKILLS

Programming Languages: Python, C, C++, MATLAB

Robotics:
 ROS, PyTorch, OpenCV, Movelt, Gazebo, MuJoCo

Other: Unix ecosystem, Git, LaTeX