Sujay Bajracharya

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EDUCATION

Carnegie Mellon University – School of Computer Science *Pittsburgh, PA*
Master of Science in Robotics *August 2021*
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 RL based 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 *2019*
Augmenting Knowledge through Statistical, Goal-oriented Human-Robot Dialog
IROS 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems

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

SKILLS

- Programming Languages: Python, C, C++, MATLAB
- Robotics: ROS, PyTorch, OpenCV, MoveIt, Gazebo, MuJoCo
- Other: Unix ecosystem, Git, LaTeX