Priyam Parashar

University of California, San Diego 9500 Gilman Dr La Jolla, CA 92093 U.S.A.

Phone: 412-265-8809 email: pparashar@ucsd.edu Born: July 8, 1991 – India

AREAS OF INTEREST

Artificial Intelligence • Cognitive Robotics • Human Robot Interaction • Mobile Robots

EDUCATION

2016-Present PhD STUDENT in CSE - Robotics,

University of California, San Diego

2015-2016 PhD Student in Robotics,

Georgia Institute of Technology

CGPA: 3.50 / 4.00

MSc in Robotics,

2015

Carnegie Mellon University

CGPA: 3.95 / 4.00

2013 BTECH WITH HONOURS in Electronics and Communication,

International Institute of Information Technology, Hyderabad

CGPA: 8.55 / 10.00

RESEARCH EXPERIENCE

Summer 2017 RESEARCH INTERN under Dr A. Cosgun and Dr A. Nakhaei,

Honda Research Institute, USA

- Conducting user study to understand driving patterns in ambiguous, partially occluded scenarios
- Investigating combination of learning from demonstration and domain knowledge to train a self-driving system
- Implemented user study platform on top of Gazebo using C++

2016-2017 GRADUATE RESEARCH ASSISTANT under Dr Henrik Christensen and Dr Ashok Goel,

University of California, San Diego; Georgia Institute of Technology

• Investigating long term autonomy of robots in the context of navigation and human-robot interaction

• Investigating methodologies to combine knowledge-based techniques with databased techniques for a more flexible AI architecture for collaborative robots

2013-2014 GRADUATE RESEARCH ASSISTANT under Dr Reid Simmons,

Carnegie Mellon University

- Designed pipeline for analyzing logged data from mobile robots to model and predict travel time depending upon environmental and time-based features
- Learning was geared towards making explanations and diagnostic efforts easier by using Decision Tree based rule-extraction from the data
- Verified the pipeline using real-world logged data from CoBot
- Authored a paper outlining the approach and results of the same

Robotics Software Intern supervised by Dr Frederik Heger,

Vecna Technologies, Inc.

- Programmed the pipeline conceived during the GRA at Carnegie Mellon University for the planning stack of QC Bot in C++
- Refined design using real-time data from in-house robot runs, presented the approach and results as part of final week presentations, which was generally praised

Undergraduate Research Assistant under Dr Madhava Krishna,

IIIT-Hyderabad

2013

2016

2012

2011

- Facilitated conception of FPGA-powered omni-directional robots for promoting robotics projects within the university, as a part of team of 4
- Programmed FPGA to implement various path-planning algorithms, leveraging the parallel processing that the platform provides

RESEARCH INTERN under Dr Sudhir Madhav Rao

IIIT-Hyderabad

- Designed the complete course curriculum for lab-based course "Digital Signal Processing Lab", which was introduced next semester
- Verified experiments on Texas Instrument's TMS320C6713 DSP Starter Kit and catalogued the proceedings as a lab manual

TEACHING EXPERIENCE

Teaching Assistant for Introduction to Robotics and Perception

Georgia Institute of Technology

• Conducted tutorial sessions to help with lab-based hands-on experiments as well as lecture based conceptual questions

Teaching Assistant for *Electronics Workshop - II*

IIIT-Hyderabad

- Designed new weekly problem statements for teaching curriculum
- Supervised lab sessions and tutored the undergraduate students involved

Teaching Assistant for Embedded Hardware Design

IIIT-Hyderabad

 Supervised lab sessions and tutored undergraduates on concepts of micro-controllers and FPGA

PUBLICATIONS

2017

2011

Parashar, Priyam, Robert Fisher, Reid Simmons, Manuela Veloso, and Joydeep Biswas. "Learning Context-Based Outcomes for Mobile Robots in Unstructured Indoor Environments." In 2015 IEEE 14th International Conference on Machine Learning and Applications (ICMLA), pp. 703-706. IEEE, 2015

Parashar, Priyam, Sheneman, B and Goel, A.G. "Adaptive Agents in Minecraft: A Hybrid Paradigm for Combining Domain Knowledge with Reinforcement Learning" In *Proceedings of the Adaptive Learning Agents workshop (at AAMAS), Sao Paulo, Brazil, May 2017*

HONORS AND AWARDS

Research paper chosen as the 'Visionary Paper' by Adaptive Learning Agents Workshop at AAMAS 2017, to be published under Springer's Lecture Notes in Artificial Intelligence (LNAI) Hot Topics series

Georgia Robotics Fellowship for Women and Underrepresented Minorities Enlisted in *Dean's List of Academic Excellence* at IIIT-Hyderabad, India

Awarded special mention and credits by the institute, for excellent work while developing the course curriculum for "Digital Signal Processing Lab"