Siddhartha Banerjee

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EDUCATION

GEORGIA INST. OF TECH.
PH.D. IN ROBOTICS
May 2021 | Atlanta, GA
Advised by Dr. Sonia Chernova

YALE UNIVERSITY
B.S. IN ELECTRICAL ENGINEERING/COMPUTER SCIENCE
May 2013 | New Haven, CT
Distinction in Major
GPA: 3.7 / 4.0

VASANT VALLEY SCHOOL
Grad. 2009 | New Delhi, India

LINKS

Github:// **banerjs**
LinkedIn:// **banerjs**
Goodreads:// **siddhartha-banerjee**

COURSEWORK

GRADUATE
Artificial Intelligence (Student & TA)
Deep Learning
Linear Systems & Control
Nonlinear Systems
Human-Robot Interaction (Student & TA)
Human-Computer Interaction
Evaluation of Human Integrated Systems

UNDERGRADUATE
Intro to VLSI System Design
Systems & Control
Science of Complex Systems
Systems Programming
Design & Analysis of Algorithms
Intelligent Robotics
Computational Vision
Database Systems
Mobile Computing & Wireless Networks

PROGRAMMING

LANGUAGES
Familiar:
Python • C++ • C • Java • C#
MATLAB • Shell • Javascript
R • SQL • LaTeX

FRAMEWORKS
ROS • Django • React • PyTorch

WORK EXPERIENCE

DILIGENT ROBOTICS | ROBOTICS SOFTWARE ENGINEER
May 2018 - August 2018, January 2021 - Current | Austin, TX
- Developing behaviours for Moxi, the robot, and capabilities in backend services
- Lead for Remote Operations

MICROSOFT | RESEARCH INTERN
May 2017 - August 2017 | Seattle, WA
- Worked with Situated Interaction Group
- Setup a robot for in-the-wild activity recognition, with a focus on learning from human-robot interaction

REDFIN | SOFTWARE ENGINEER
July 2013 – June 2015 | Seattle, WA
- Designed and maintained ETL pipeline for house listing data
- Integrated 3rd party GIS data
- Calculated and displayed aggregate housing data for regions
- Maintained internal tools for managing agents and locations

AWARDS & LEADERSHIP

2019	Panel Chair	HRI Pioneers Workshop
2017–2018	President	Georgia Tech RoboGrads
2014	Employee of Quarter	Redfin
2011	Fellow	Yale Entrepreneurial Institute Summer Fellowship
2011–2012	Vice-President	Yale Formula Hybrid FSAE Team
2007	Winner	Indian Robot Olympiad

NOTABLE PUBLICATIONS

[1] S. Banerjee, A. Silva, and S. Chernova, "Robot classification of human interruptibility and a study of its effects," *ACM Trans. on Human-Robot Interaction (THRI)*, vol. 7, no. 2, p. 14, 2018.

[2] D. Das, S. Banerjee, and S. Chernova, "Explainable ai for robot failures: Generating explanations that improve user assistance in fault recovery," in *Proc. Int. Conf. on Human-Robot Interaction (HRI)*. New York, NY, USA: Association for Computing Machinery, 2021, p. 351–360.

SELECT PROJECTS

FETCHIT! CHALLENGE | ROBOTICS COMPETITION
Summer 2019 | ICRA
Developed robot software to complete a mobile manipulation challenge at the ICRA 2019 FetchIt! Challenge hosted by Fetch Robotics. The team placed first, winning a Fetch mobile manipulator robot.

YALE FORMULA HYBRID FSAE | STUDENT ORGANIZATION
2009 - 2013 | Yale
Designed and built formula style gas-electric hybrid cars to compete nationally. Team won several awards including Best Hybrid Car (2013), Ford Efficiency (2013), Chrysler Innovation (2013), & GM Best Engineered Hybrid System (2010, 2013)