Siddhartha Banerjee

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Education

2015 — Ph.D. in Robotics. Advised by Dr. Sonia Chernova. *In Progress*.
Georgia Institute of Technology, Atlanta, GA, USA.

2009 — 2013 B.S. Electrical Engineering/Computer Science with Distinction.
Yale University, New Haven, CT, USA.

Employment

Summer 2017 Research Intern. Advised by Dan Bohus and Sean Andrist.
Microsoft, Seattle, WA, USA

Fall 2016 Teaching Assistant for CS6601: Introduction to Artificial Intelligence.
Georgia Institute of Technology, Atlanta, GA, USA

2013 — 2015 Software Engineer on Data Team.
Redfin, Seattle, WA, USA

2012 — 2013 Peer Tutor for CPSC 202: Mathematical Tools for Computer Science.
Yale University, New Haven, CT, USA

Summer 2012 Hardware Verification Intern.
Microsoft, Mountain View, CA, USA

Publications

Conference Proceedings

S. Banerjee and S. Chernova, "Temporal Models for Robot Classification of Human Interruptibility," in *Int. Conf. on Autonomous Agents & Multiagent Systems*, no. 16. IFAAMAS, 2017, pp. 1350–1359

Workshops

S. Banerjee and S. Chernova, "Robots Predicting the Interruptibility of Humans," in *RSS Workshop on Planning for HRI*, 2016

B. Harrison, **S. Banerjee**, and M. O. Riedl, "Learning from Stories: Using Natural Communication to Train Believable Agents," in *IJCAI Workshop on Interactive Machine Learning*, 2016

Awards and Leadership Positions

2017 — 2018 President, RoboGrads, *Georgia Institute of Technology*

2016 — 2017 Social Chair, RoboGrads, *Georgia Institute of Technology*

Q3 2014 Employee of the Quarter, *Redfin*

2012 — 2013 Team Mentor, Formula Hybrid FSAE Team, *Yale University*

2011 — 2012 Vice President, Formula Hybrid FSAE Team, *Yale University*

Summer 2011 Yale Entrepreneurial Institute Fellowship, *Yale University*

Projects

Spring 2016 **Quadrotor Control via Backstepping**. *Class Project*
Verified and simulated the control of a quadrotor through Backstepping to show provably correct control that uses less energy than traditional Inner-loop Outer-loop control.

Spring 2016 **Treeminder: An SMS-based Goal Completion System for the United Way Achievement Club**. *Class Project*
Designed a goal tracking and completion system in partnership with the United Way Achievement Club to help members of at-risk populations avoid homelessness. Conducted usability and feasibility analyses to justify and support the design.

2009 — 2013 **Yale Formula Hybrid FSAE Team**. *Student Organization*
Designed and built formula style gas-electric hybrid car to compete against other schools in an annual national competition. Team awards: Best Hybrid Car (2013), Ford Efficiency Award (2013), Chrysler Innovation Award (2013), GM Best Engineered Hybrid System Award (2010, 2013)

2012 — 2013 **Synchronization and Collective Behaviour**. *Senior Class Project*
Simulated agent-based modeling of multi-agent systems. Explored the role of synchronization and chaos in dynamical systems.

Spring 2012 **Assigning Blame to Self-Driving Cars**. *Class Project*
Surveyed drivers to determine whether blame is assigned to a self-driving car or the human driver using simulations of accidents between self-driving cars with human-driven cars.

Fall 2011 **Design and Fabrication of Simple Data Encryption Standard (S-DES) Encryption/Decryption chip**. *Class Project*
Designed a VLSI chip to perform S-DES encryption/decryption and created CAD models of the chip and its layout in preparation for fabrication. Tested and verified the function of the chip post-fabrication.

Professional Memberships

Institute for Electrical and Electronics Engineers (IEEE)