

# 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

<b>2017 — 2018</b>	President, RoboGrads, <i>Georgia Institute of Technology</i>
<b>2016 — 2017</b>	Social Chair, RoboGrads, <i>Georgia Institute of Technology</i>
<b>Q3 2014</b>	Employee of the Quarter, <i>Redfin</i>
<b>2012 — 2013</b>	Team Mentor, Formula Hybrid FSAE Team, <i>Yale University</i>
<b>2011 — 2012</b>	Vice President, Formula Hybrid FSAE Team, <i>Yale University</i>
<b>Summer 2011</b>	Yale Entrepreneurial Institute Fellowship, <i>Yale University</i>

## Projects

<b>Spring 2016</b>	<b>Quadrotor Control via Backstepping.</b> <i>Class Project</i> 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.
<b>Spring 2016</b>	<b>Treeminder: An SMS-based Goal Completion System for the United Way Achievement Club.</b> <i>Class Project</i> 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.
<b>2009 — 2013</b>	<b>Yale Formula Hybrid FSAE Team.</b> <i>Student Organization</i> 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)
<b>2012 — 2013</b>	<b>Synchronization and Collective Behaviour.</b> <i>Senior Class Project</i> Simulated agent-based modeling of multi-agent systems. Explored the role of synchronization and chaos in dynamical systems.
<b>Spring 2012</b>	<b>Assigning Blame to Self-Driving Cars.</b> <i>Class Project</i> 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.
<b>Fall 2011</b>	<b>Design and Fabrication of Simple Data Encryption Standard (S-DES) Encryption/Decryption chip.</b> <i>Class Project</i> 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)