

# CS 378: Autonomous Intelligent Robotics

## FRI II

Instructor: Justin Hart

[http://justinhart.net/teaching/2018\\_fall\\_cs378/](http://justinhart.net/teaching/2018_fall_cs378/)

# Basic Information – Website, Syllabus

- Website:  
[http://justinhart.net/teaching/2018\\_spring\\_cs309/](http://justinhart.net/teaching/2018_spring_cs309/)
  - This site will be regularly updated.
- Syllabus: Available on website & as handouts

# Today

- Basic Information, Preliminaries
- FRI II – Autonomous Robots Overview

# Basic Information – Where We Meet

- We're using a few spaces this semester:
  - Welch (WEL) 2.128 – This classroom
  - Gates-Dell Complex (GDC) 3.414 – The BWI Lab
  - Anna Hiss Gymnasium 2<sup>nd</sup> Floor (AHG) - RoboCup@Home Lab
- Next class will meet in GDC 3.414

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# Basic Information – Media Release

- Media Release: If you do not sign one, please do not appear in media representing or hosted with course content.
- Media releases should be handed out to you today and returned to Yuqian Jiang.

# Office Hours & Contact

Instructor – Justin Hart

Office: GDC 3.402

Email: [hart@cs.utexas.edu](mailto:hart@cs.utexas.edu)

Office Hours: Monday & Wednesday 4:00pm-5:00pm or by appointment

Instructor – Yuqian Jiang

Office: GDC 3.410F

Email: [jiangyuqian@utexas.edu](mailto:jiangyuqian@utexas.edu)

Office Hours: Tuesday & Thursday 2:30pm-3:30pm or by appointment

# Mentors

Mentors (office hours TBD)

Kathryn Baldauf

Mayuri Raja

Stone Tejeda

Jamin Goo

Jeffrey Huang

Shivam Patel

Meet mentors in the lab, GDC 3.414 when needed



# Students with Disabilities

The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities.

To determine if you qualify, please contact the Dean of Students at 471-6529; 471-4641 TTY.

Prof. Hart will work in conjunction with you and them to make appropriate arrangements.

# Attendance and Participation

Students are expected to attend every class session and to actively participate. This includes in-class discussions and effective use of laboratory time to pursue semester projects.

If you miss a session, it is your responsibility to find out what you missed, including in-class announcements.

# Academic Integrity

Cheating, plagiarism, and other academic misconduct will be handled according to UT's guidelines.

<http://www.cs.utexas.edu/users/ear/CodeOfConduct.html#honesty>

Without further ado..

**WELCOME TO FRI II**

I hope you're as excited as I am!

# Welcome new students!

This semester, we have new students who were not with us for FRI I.

This is will be a challenge, because FRI I, Autonomous Robots crams a lot of information about how to make the robots work into 1 semester.

We will work with you to make this a great experience.

# Last Semester – FRI I

- Lecture- Based
  - Regular CS-style homework assignments
  - Learned ROS
- Introduced students to robotics research concepts.
  - Working with robots.
  - Student-driven final projects.

# This Semester – FRI II

- Students participate as members of the BWI Laboratory
  - Working on the Building-Wide Intelligence Project.
- More akin to what a PhD student does than what the typical undergraduate does.
- Project-based and laboratory-based.
- Success is based on progress on research.
- Graded assignments will be research assignments.

# You are cordially (and mandatorily) invited to..

- The First Annual FRI Autonomous Intelligent Robotics Student Workshop (FAIR SW 2018)
- The First Annual FRI Autonomous Intelligent Robotics Conference on Service Robots (FAIR ServRob 2018)
- See & Discuss Call For Papers for Each



# Group Projects

- Teams of
  - 4 students (Exactly 4 students)
  - 1 mentor
  - Possible others in lab

# Group Project Milestones

- Project Proposal

- 1 page written – Due: 9/10 @ 11:59 PM
- 5 minute presentation – 9/11 in class

- FAIR Student Workshop

- 2-4 pages written – Due: 10/30 @ 11:59 PM
- Peer-reviews – Due: 11/05 @ 11:59 PM
- Program Committee Meeting – 11/06 in class
- Presentations – 11/08 in class

# Peer review?

- In-class discussion
  - How do paper reviews work?
    - How does scoring work?
    - What does the meta-reviewer do?
  - What is a Program Committee Meeting?
    - What is the role of the PC chair?
    - How are papers ranked and accepted?
      - Note, all papers will be accepted into the conference and workshop for the class!

# Overview

- Teams of 4 students + 1 mentor + possible others in lab
- Project Proposal
  - 1 page proposal paper
  - 5 minute talk (3 slides) + discussion
  - There is a list of potential projects that will be discussed next class period. Projects are subject to instructor approval.

# Grading

- Class Participation and Attendance – 15%
- Final Project – 85%
  - Difficulty & Effort
  - Research Value
  - Successful Completion
  - Workshop Presentation
  - Workshop Paper
  - Conference Presentation
  - Conference Paper