STT 465: Bayesian Statistical Methods

Instructor: Gustavo de los Campos, 909 Fee Road, Room B637

Email: gustavoc@msu.edu

Time/Place: MW 10:20am - 11:40am A120 Wells Hall (WH)

Website: https://github.com/gdlc/STT465

Office Hours: MW 9:00am-10:00 am Wells Hall (office TBA)

Textbook: A First Course in Bayesian Statistical Methods, Peter D. Hoff, Springer.

Prerequisites: STT 442 or equivalent courses.

Grading: Final grades will be based on homework (30%), one in class exam (40%) and one final project (30%).

Course Description:

This course will provide an introduction to Bayesian inference, including both the underlying principles as well as the methods and algorithms commonly used for data analyses. We will cover chapters 1-7, 9-10 and 12 of the required textbook. Examples will be primarily implemented in R (http://www.r-project.org).

Important Dates:

- Wednesday, September 2nd: 1st class.
- Wednesday Oct. 28th: In class exam (tentative)
- Wednesday, Nov. 4th: final project proposal due (tentative)
- Wednesday, Nov. 25th: final project due (tentative)
- Wed. December 9th & Monday Dec. 14th: final project presentations.

Academic Honesty: The Department of Statistics and Probability adheres to the policies of academic honesty as specified in the General Student Regulations 1.0, Protection of Scholarships and Grades, and in the All-University of Integrity of scholarship and Grades which are included in Spartan Life: Student Handbook and Resource Guide. Students who plagiarize will receive a grade 0.0 on the homework, exam or quiz.

ADA: To arrange for accommodation a student should contact the Resource Center for People with Disabilities at http://www.rcpd.msu.edu/ or (517)353-9642

Disclaimer: Changes on the syllabus/important dates will be announced in class and on the course web site. It is students' responsibility to keep up with any changed policies and assignments.