Basic Information:
Lecturer: Zuoqin Wang (email: zwang@math.jhu.edu)
Lecture hours: MW 10:30-11:45 am AT Shaffer 304
Office hours: M 1-3 pm (by appointment) AT Krieger 220

Course Web Page: (Please check the website regularly for updates of the course)
http://math.jhu.edu/~zwang/619F09/

Course Description: Major topics we would like to cover in this course include: Differential manifolds and vector fields, Lie groups and its linearization – Lie algebras, Lie group actions on smooth manifolds, Representation of Lie groups and Lie algebras, Structure of compact Lie groups. Elementary theory of Lie algebra.

Text: No textbook are required. We will upload course notes to the course website after each lecture. There are many good textbooks on this subject, includes
- J. Adams, Lectures in Lie groups. ISBN: 978-0226005300
- J. Duistermaat and J. Kolk. Lie groups. ISBN: 978-93540152934

Homework: The course is divided into six parts (see course schedule), and there will be six problems sets. Homework will be assigned both in class and on the course website.

Exams: There will be no exam for this course.

Your Grade: Based on your course attendance and your homework.

Special Aid: Students with disabilities or other special needs who require classroom accommodations or other arrangements must make this known to the instructor as soon as possible at the beginning of the semester, and be registered with the disability coordinator in the Office of Academic Advising.

Ethics: The strength of the university depends on academic and personal integrity. In this course, you must be honest and truthful. Ethical violations include cheating on exams, plagiarism, reuse of assignments, improper use of the Internet and electronic devices, unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonesty, and unfair competition.

Report any violations you witness to the instructor. You may consult the associate dean of students and/or the chairman of the Ethics board beforehand. See the guide on “Academic Ethics for Undergraduates” and the Ethics board website (http://ethics.jhu.edu) for more information.