Instructor: Luca Spolaor, Office: AP&M 5111

Office Hours: W 3-5PM

Textbook: *Introduction to Smooth Manifolds*, by John M. Lee

Website of the course: My page and Canvas

Email: lspolaor@ucsd.edu

Content of the class

Aim and content: We will study the notions of smooth manifolds, vector fields, Frobenius theorem, differential forms, Stokes theorem and De Rham theorem. This course will be a prerequisite for 251B.

Lecture: The Lectures will be live in person, unless things change :D

Reading: As this is a Graduate Class, reading and autonomous work will be a fundamental part of it.

Lecture notes: I will post the handwritten notes after each class on Canvas, however they will not be a substitute for the book. Moreover they may contain errors or typos, use them at your own risk.

Homeworks, Exams and Grades

Problem Sets: There will be 4/5 homeworks, posted every 2 weeks on Canvas. They will not be graded and they are only meant for you to check your understanding.

Final and Grades: The final exam will be a **presentation** given during the last week of classes. I will propose some topics, but you can also choose one yourself as long as it is relevant to the class and approved by me.

Academic Dishonesty: Academic dishonesty is considered a serious offense at UCSD. Students caught cheating will face an administrative sanction which may include suspension or expulsion from the university. See this website for more information.