

## ## Report of activities (Summer Semester 2017)

**\*\*Héctor Andrade Loarca\*\***

1.- Courses that I took: - Seminar: Applied Functional Analysis in Data Science, Prof. Gitta Kutyniok, TU.

2.- Exams dates and grade: - Seminar: Applied Functional Analysis in Data Science, Presentation date: 01.07.2017, Final grade: TBA.

This semester was my fourth semester in the TU Berlin and BMS. Last semester I finished with all my mandatory courses for the BMS Phase I with an average grade of 1.18; so in this semester I centered my work on writing my Master Thesis with Professor Gitta Kutyniok and on finishing the only mandatory seminar left for the Masters regulation at TU. I also was invited to two international programming conferences: JuliaCon 2017 in June at UC Berkeley on the San Francisco Bay Area and PyData 2017 in July at Berlin. In these conferences I presented the software that I've been developing with Professor Kutyniok's group Shearlab.jl, that is the Julia version of the former Shearlab3D developed by the group. Even though I did not attend this semester to any soft skill seminar, I attended regularly to the BMS Fridays and other BMS events.

At the end of this semester, in September 11, I did for my Qualifying Exams the Master Thesis Defence with Prof. Gitta Kutyniok and Dr. Philipp Petersen, and the exam of the basic course, Differential Geometry II with Professor Pinkall; I obtained in the Master Thesis Defence a grade of 2.0 and in the Diff. Geo. II exam a grade of 1.0, making an average of 1.5. I finished with this the Phase I, and I am proceeding then next semester to start my Phase II of the BMS with Prof. Kutyniok as my PhD advisor.