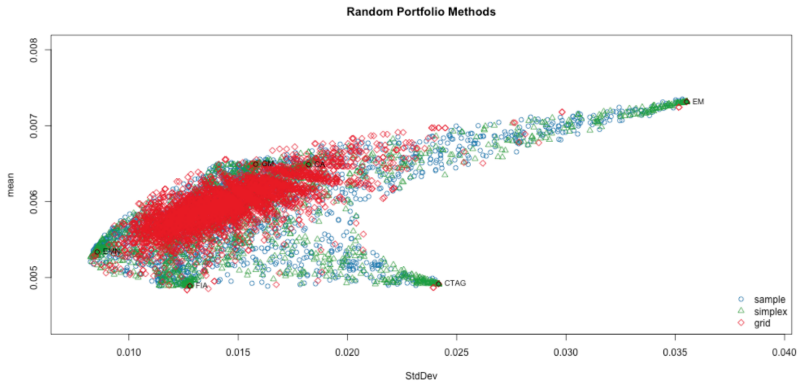
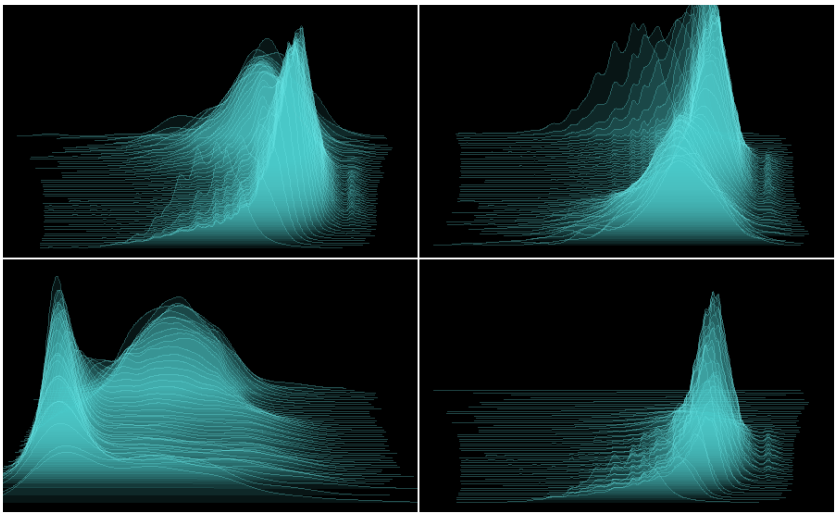


Econometric modeling

Manuel Jamin, class of 2016

Optimizing the learning environment

Through a visit from a group of scientists who were perspective residents of a NASA habitat, much like one which would be possible to be built on Mars, we became involved with the projects here at the energy lab. This visit sparked our interest and we soon found a project to pursue: monitoring the energy use and the waste of these six scientists who would live in the habitat for eight months and were sponsored by NASA. Through monitoring the HI-SEAS project we learned how to analyze and understand the data collected by sensors displayed on graphs. Soon we moved on to an environmental audit using Netatmo sensors, on the upper and lower HPA campuses. Using our previously acquired knowledge of graphs, we are able to make use of the data we are collecting with these sensors. We began by setting up Netatmo sensors at the lower campus, where we learned that each classroom had an individual environmental profile, which we also noticed as we set up sensors in all the upper campus classrooms. By detecting imperfections in the classroom conditions we were able to create a plan to optimize the learning environment. On the lower campus, there have already been alterations to fix the classrooms, while on the Upper campus we are beginning to make an interface that will allow



teachers to format their own classrooms in a way that will allow students to learn to their full potential.

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