The project allows us to play with various languages and tools. Most files are written in python, which makes us more familiar with common packages like numpy and matplotlib.pyplot. Some of us try using Cython for the first time to realize functions efficiently. Also, we start to truly rely on github and feel the importance of version control after confronting mistakes. We were once new to these tools, but now we are familiar with the basic usages that might be helpful in our future research work.

Besides language, we also make progress in object-oriented programming. We learned how to use classes and inheritance to make the program more ordered and easier to deal with.

Coding, from solving homework problems to dealing with research, used to be an individual task for most of us. This final project allows us to experience coding in a brand new way. This time, we have to pay much attention to interface design ahead of time to make future collaboration easy. Also, comments are now essential for us to understand each other’s work. We develop good coding habits through our operation, which is an important lesson we learned from this course.