Reflection by Xi Guo

the relationship between research and design
My research is mainly focused on the background, definitions and methods of the digital architecture design. And it also refer to the study of sustainable architecture as well as the interactive architecture. My design is a series of specific operations based on these studies.

the relationship between the theme of the studio and the subject/case study chosen by the student within this framework (location/object)
This time, the theme of Hyperbody is focused on generating self-sustaining Climatic Ecologies. According to my research, this subject is within the scope of digital architectural design, but also to the concept of Interactive Sustainability. So I can say that my case is a comprehensive study of background knowledge about the digitization of architectural design and also a design excavation particularly for the studio theme within the digitized design field.

the relationship between the methodical line of approach of the studio and the method chosen by the student in this framework
The methodical line of approach of the studio is that to situate and generate architecture forms with regards to the urban settings with dynamic energy exchanges are established among them. So to my own manner, it is broadly divided into three parts, bottom up computational topology, top down architectural morphology and digitalized construction optimization, thus it follows the direction and the framework of the studio, and also through logical steps, systematic thinking, and digital data exchanging, it covers the final design from urban context generating to architecture form finding as well as the computational construction design.

Overall approach
the relationship between the project and the wider social context

My project is generated from the social context by computational manner, through accessing data from the social environment, establishing of systems and logics to generate the architecture form. By designing the building skin and the environmental interactive skin components, the building will interact with the natural environment and sequentially impact the micro climate of the building and also by the real-time changing of the skin, it will affecting the social context to an organic relationship.

From the study itself, its relationship with the social environment is also meaningful. We are in a digital era, the development of technology will affect the architecture to a large extent, from design to construction, from management to using, everything will be changed. So from this perspective, the project itself and its approach can also be considered as a product that is generated by the digital social context.