4.1 – 6.1

Kaisheng Zheng –Obtaining inspiration, starting points, and general ideas on the whole system during team meetings.

6.1 – 6.30

Kaisheng Zheng – Helping build ODEs describing formaldehyde degradation.

8.1 - 8.9

Kaisheng Zheng – Processing and analyzing the data of formaldehyde detection with GFP signal. Data were from the wet lab. Obtaining the fitted equation for future modeling.

8.1 – 8.30

Kaisheng Zheng – Learning the basic mechanics of FBA and setting up the algorithm framework.

9.1 – 10.7

Kaisheng Zheng – Learning FEM and choosing an appropriate object to model.

Kaisheng Zheng – Finish building the model of “alginate beads with microorganism embedded”, and setting up the algorithm of finite element analysis on MATLAB, confirming the idea of the pump’s installation.

9.21 – 9.25

Kaisheng Zheng - Analyzing the formaldehyde detection data from the wet lab, met the result from the previous FBA result.