Summer Breezes in a Cape Cod cottage
designed by Shu Wang

• A person can take time to read, write, and reflect inside, while also enjoying the warm summer on the porch outside.

• The three spaces of the cottage: kitchen, bath, and living area, lie around each other so that circulation space is shortened.

• The southern side of the cottage is devoid of windows and well shaded to it cool naturally.

• Windows provide sweeping views of the outside; the first rays of the morning sun cast through the eastern windows, while the western windows provide the last red glimpses of the setting sun.

• A large northern window, facing parallel to the ocean, allows for grand views of the meeting between water and land.
Site

- The cottage sits close to the ocean to allow for vast views at an elevation of four feet.

- Entry to the cottage comes from path that sits to the west of the house.

- The porch of the cottage is close to the ocean with little obstructions to the water to facilitate easy access.
Floor Plan

Scheme 1

- Insertion of railings to protect resident from falling off porch

Scheme 2

- Enlargement of window because removal of southern window will cause less light and to increase western views
- Removal of southern window to reduce solar gains
Isometric View of Cottage

**Scheme 1**
- Opened roof beams for cross ventilation
- Larger roof to protect western and eastern windows from summer sunlight
- Southern window removed in new scheme
- Ground piles thinner in new scheme

**Scheme 2**
- Railings
- Larger window
The new scheme brings in more light during the afternoon hours, since before the window size was increased on the west side. The other windows remained mostly the same, since I wanted large windows on the northern and eastern sides for views.
Section Cut
Rapid Prototyped Model