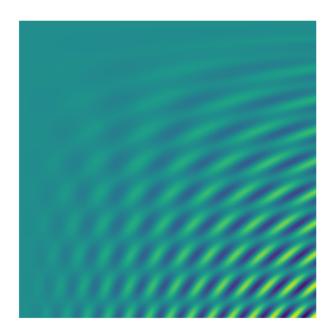
## CT5132/CT5148 Lab Week 10

## James McDermott



Recall our exercise on grammars and generative art. Here is the necessary code for rendering an image. You can paste it into a notebook.

```
import matplotlib.pyplot as plt
import matplotlib.cm as cm

n = 200
xs = np.linspace(0, 1, n)
ys = np.linspace(0, 1, n)
x, y = np.meshgrid(xs, ys)

ps = "np.sin(90 * x * y) * np.sin(30 * (y+0.1)) * x * y"
p = eval("lambda x, y: " + ps)
plt.axis('off'); plt.imshow(p(x, y));
```

Try altering the grammar  ${\tt G},$  and replace  ${\tt ps}$  with a string derived from  ${\tt G}.$